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# MONTANA STATISTICAL ABSTRACT 1984

## A SUPPLEMENT TO ECONOMIC CONDITIONS IN MONTANA, 1984

Build
Montana

MONTANA DEPARTMENT OF COMMERCE

DEPARTMENT OF COMMERCE

TED SCHWINDEN, GOVERNOR
CAPITOL STATION
1424 9TH AVENUE

STATE OF MONTANA

(406) 449-3494
HELENA, MONTANA 59620-0401

February 1, 1985

The Honorable Ted Schwinden
Governor of Montana
& The Montana Legislature

Dear Governor Schwinden & Members of the Montana House & Senate:

I would like to present you with the *Montana Statistical Abstract, 1984*. It is an extensive informational supplement to *Economic Conditions in Montana, 1984* and provides data on the population, employment, income, finances, land use, and natural resource areas in our great state.

This book is one of several projects on the Montana economy sponsored by the Governor's Council on Economic Development in 1984 and emerges from Executive Order No. 15-83 creating the Council on Economic Development. The section of the Executive Order which pertains to this document reads

> Whereas, the Council will assist in the preparation of materials on economic development issues; will prepare a biennial economic development and economic conditions report; and will sponsor appropriate research and other functions important to Montana's efforts in the areas of economic development. . .

The *Montana Statistical Abstract, 1984* is the most extensive compendium of facts and figures on Montana since at least 1970. I believe it will serve many purposes as a reference book on Montana.

Sincerely,

W.E. "Buster" Schreiber,
Chair
Governor's Council on
Economic Development

AN EQUAL OPPORTUNITY EMPLOYER

# MONTANA STATISTICAL ABSTRACT, 1984

A SUPPLEMENT TO

ECONOMIC CONDITIONS IN MONTANA, 1984

Submitted to:

The Honorable Ted Schwinden
Governor of Montana

Prepared by:

Dwayne Ward, Ph.D. and Bruce Schwartz
Census and Economic Information Center
Montana Department of Commerce

January 1985

# GENERAL SUBJECT AREA HEADINGS

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# ACKNOWLEDGEMENTS

The authors are indebted to a number of people who helped in various ways in the preparation of this book.

First, there is Dale Harris of the Montana Department of Commerce. He developed the concept of the statistical abstract and provided the encouragement to get the project started. He also arranged an internship for Bruce Schwartz to work on the project for several months.

Phil Brooks supplied other leadership and offered many valuable suggestions for improving the first draft. He also reviewed the final version. Patricia Roberts furnished information and support on a daily basis and examined the book before printing. Jan Clack cheerfully provided a large number of source materials and helped proofread and paginate the manuscript. These three are immediate colleagues at the Census and Economic Information Center at the Montana Department of Commerce.

Some small beginnings on the book were undertaken by one of the authors (Dwayne Ward) in 1982 with the support of the Northern Lights Research and Education Institute and at the request of Michael Clark, then the Institute's Executive Director, and Deborah Tuck.

Still other staff members at the Montana Department of Commerce made contributions. Included are Bob Pancich, Dick Howell, Pat Flaherty, John Craig, Jan Lewis, Les Alke, Cris Olson, John Wilson, Mike Ferguson, Norma Tirrell, and Sam Hubbard.

The authors received the help of many, many other people in Montana state government. Included is the entire staff of the Montana State Library and especially Kathy Brown, Harold Chambers, and Sheena LaMere.

Natalie Walsh, Nancy McLane, and Don Howard at the Montana Department of Natural Resources and Conservation provided valuable contributions for the natural resources section of the book.

In the Montana Department of Highways, Rick Rogne, L.S. "Buck" Harris, Phil Colbert, Clint Crider, Louis LaFloe, and Robert Keck offered important information.

John C. Wilson and Bill Haggberg from the Montana Department of Health and Environmental Sciences provided vital statistics and health-related data.

Sections on education benefitted from the input of Paul Dunham in the Office of the Commissioner of Higher Education and Gene Christiaansen at the Office of Public Instruction.

The work of Gail Kragh on women in the Montana economy for the Montana Department of Labor and Industry provided a number of informative tables that are used in the book. Others from that department who helped are Cathy Shenkle and the Research and Analysis Bureau in general.

Steve Bender of the Montana Department of Revenue Research Bureau furnished useful Montana taxation information.

Bonnie Allen and Nina Wines at the Montana Public Service Commission provided public transportation information.

Richard Tucker in the State Auditor's Office was one of our authorities on securities issued in Montana.

Lyle Pratt at the Montana Livestock and Crop Reporting Service gave us current information on agricultural issues.

Charles Keegan III and Jim Sylvester of the Bureau of Business and Economic Research at the University of Montana were important contributors to information on forest products and work on graphics, respectively.

Ed Madej of Great Divide Graphics did the cartography for a wilderness, national park, Indian Reservation, and Class 1 airshed map.

Bob Hoene of the Montana Broadcasters Association and the Montana Savings and Loan League contributed information on both Montana media and on finance.

The book also benefits from information provided by Virginia Whitney of the Small Business Administration, Helena.

Gayle Parrish, of Electronic Secretary, prepared the manuscript. Gary Wolf, Gene Pasini, Leo LaSalle, and other staff at the Publications and Graphics Division of the Montana Department of Administration handled printing.

All of these people have our sincere thanks and appreciation.

We would also like to thank the First Interstate Bank of California and the Western Wood Products Association for allowing us to use information they published on construction and wood products.

# ABBREVIATIONS

The following abbreviations and symbols are used throughout the tables:

| | |
|---|---|
| (D) | Withheld to avoid disclosing data for individual firms |
| (X) | Not applicable |
| (Z) | Less than half of the unit shown |
| (NA) | Not available |

ROUNDING: All numbers may not add exactly to totals due to rounding

# CHAPTER I

# POPULATION

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## TABLE I - 1

## AREA AND POPULATION - 1980

| Item | Land Area Sq. Mi. | Population | Population Per Sq. Mi. |
|---|---|---|---|
| Montana | 145,392 | 786,690 | 5.4 |
| United States | 3,539,289 | 226,545,805 | 64.0 |

SOURCE: U.S. Bureau of the Census, 1980 Census, Number of Inhabitants, Montana and Number of Inhabitants, United States.

## TABLE I - 2

## MONTANA POPULATION: 1870-1980

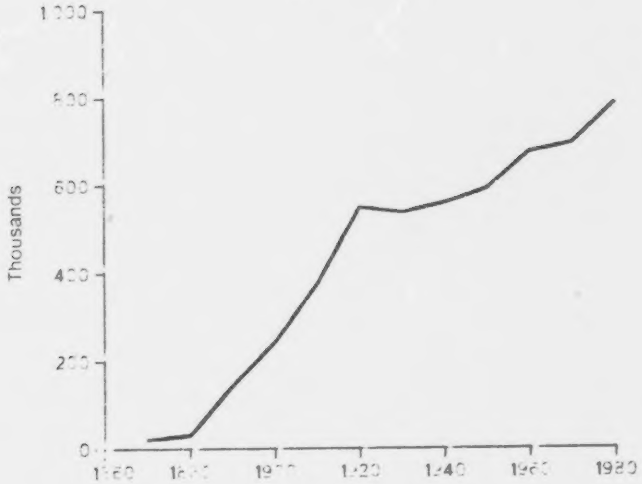
| Year | Number |
|---|---|
| 1870 | 20,595 |
| 1880 | 39,159 |
| 1890 | 142,924 |
| 1900 | 243,329 |
| 1910 | 376,053 |
| 1920 | 548,889 |
| 1930 | 537,606 |
| 1940 | 559,456 |
| 1950 | 591,024 |
| 1960 | 674,767 |
| 1970 | 694,409 |
| 1980 | 786,690 |

SOURCE: U.S. Bureau of the Census, Censuses of Population, 1870 - 1980.

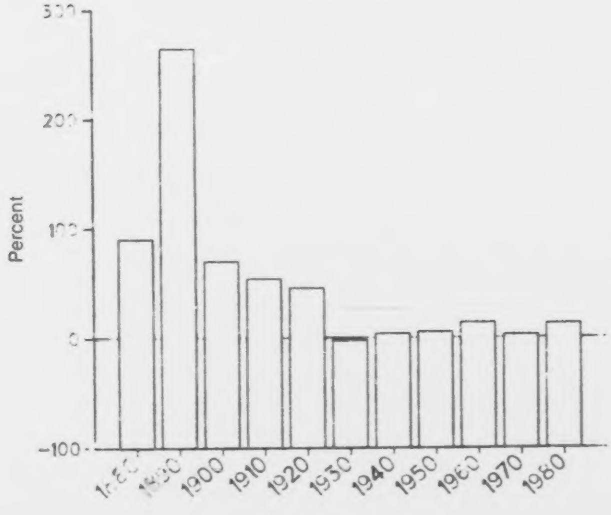
# FIGURE I-1

# MONTANA POPULATION
# 1870-1980

Montana
Population



Population Change
From Preceding Census



*Source: U.S. Bureau of The Census.*

## TABLE I - 3

## MONTANA POPULATION: 1970 - 1984

(rounded to nearest thousand)

| Year | Population | Population Change from Previous Year | % Population Change from Previous Year |
|---|---|---|---|
| * 1970 | 694,000 | | |
| 1971 | 711,000 | 17,000 | 2.4 |
| 1972 | 719,000 | 8,000 | 1.1 |
| 1973 | 727,000 | 8,000 | 1.1 |
| 1974 | 736,000 | 9,000 | 1.2 |
| 1975 | 748,000 | 12,000 | 1.6 |
| 1976 | 757,000 | 9,000 | 1.2 |
| 1977 | 770,000 | 13,000 | 1.7 |
| 1978 | 782,000 | 12,000 | 1.6 |
| 1979 | 787,000 | 5,000 | 0.6 |
| * 1980 | 787,000 | 0 | 0.0 |
| 1981 | 796,000 | 9,000 | 1.1 |
| 1982 | 805,000 | 9,000 | 1.1 |
| 1983 | 815,000 | 10,000 | 1.2 |
| 1984 | 824,000 | 9,000 | 1.1 |

* Census Year

SOURCES: For all but census years, U.S. Bureau of the Census, Population Estimates and Projections, Series P-25, May 1984. For census years, U.S. Bureau of the Census, Censuses of Population, Montana, 1970 and 1980.

## TABLE I - 4

## POPULATION DENSITY, SELECTED YEARS

(Number of People per Square Mile)

| Year | Montana | Idaho | Wyoming | United States |
|---|---|---|---|---|
| 1870 | 0.1 | 0.2 | 0.1 | (NA) |
| 1880 | 0.3 | 0.4 | 0.2 | (NA) |
| 1890 | 1.0 | 1.1 | 0.6 | (NA) |
| 1900 | 1.7 | 2.0 | 1.0 | (NA) |
| 1910 | 2.6 | 4.0 | 1.5 | (NA) |
| 1920 | 3.8 | 5.2 | 2.0 | (NA) |
| 1930 | 3.7 | 5.4 | 2.3 | (NA) |
| 1940 | 3.8 | 6.4 | 2.6 | (NA) |
| 1950 | 4.6 | 8.2 | 3.4 | 42.6 |
| 1960 | 4.1 | 7.1 | 3.0 | 50.7 |
| 1970 | 4.8 | 8.7 | 3.4 | 57.4 |
| 1980 | 5.4 | 11.5 | 4.8 | 64.0 |

(NA) not available due to changing land area
U.S. includes all 50 states

SOURCES: U.S. Bureau of the Census, 1980 Census, Number of Inhabitants volumes for Montana, Idaho and Wyoming. 1984 Statistical Abstract of the United States, p. 6, for U.S. population density. Includes land area only. Some density calculations by the Census and Economic Information Center, Montana Dept. of Commerce.

## TABLE I - 5

## PERCENT CHANGE IN POPULATION: 1870 - 1980

## FROM PRECEDING DECENNIAL CENSUS

| Year | Percent Change |
|---|---|
| 1880 | 90.1 |
| 1890 | 265.0 |
| 1900 | 70.3 |
| 1910 | 54.5 |
| 1920 | 46.0 |
| 1930 | -2.1 |
| 1940 | 4.1 |
| 1950 | 5.6 |
| 1960 | 14.2 |
| 1970 | 2.9 |
| 1980 | 13.3 |

SOURCE: Based on U.S. Bureau of the Census, Censuses of Population, Montana, 1870-1980. Calculations by Census & Economic Information Center, Montana Department of Commerce.

TABLE I - 6

## COMPONENTS OF POPULATION CHANGE IN MONTANA
1980 and 1970

| | 1970 | 1980 |
|---|---|---|
| Population | 694,409 | 786,690 |

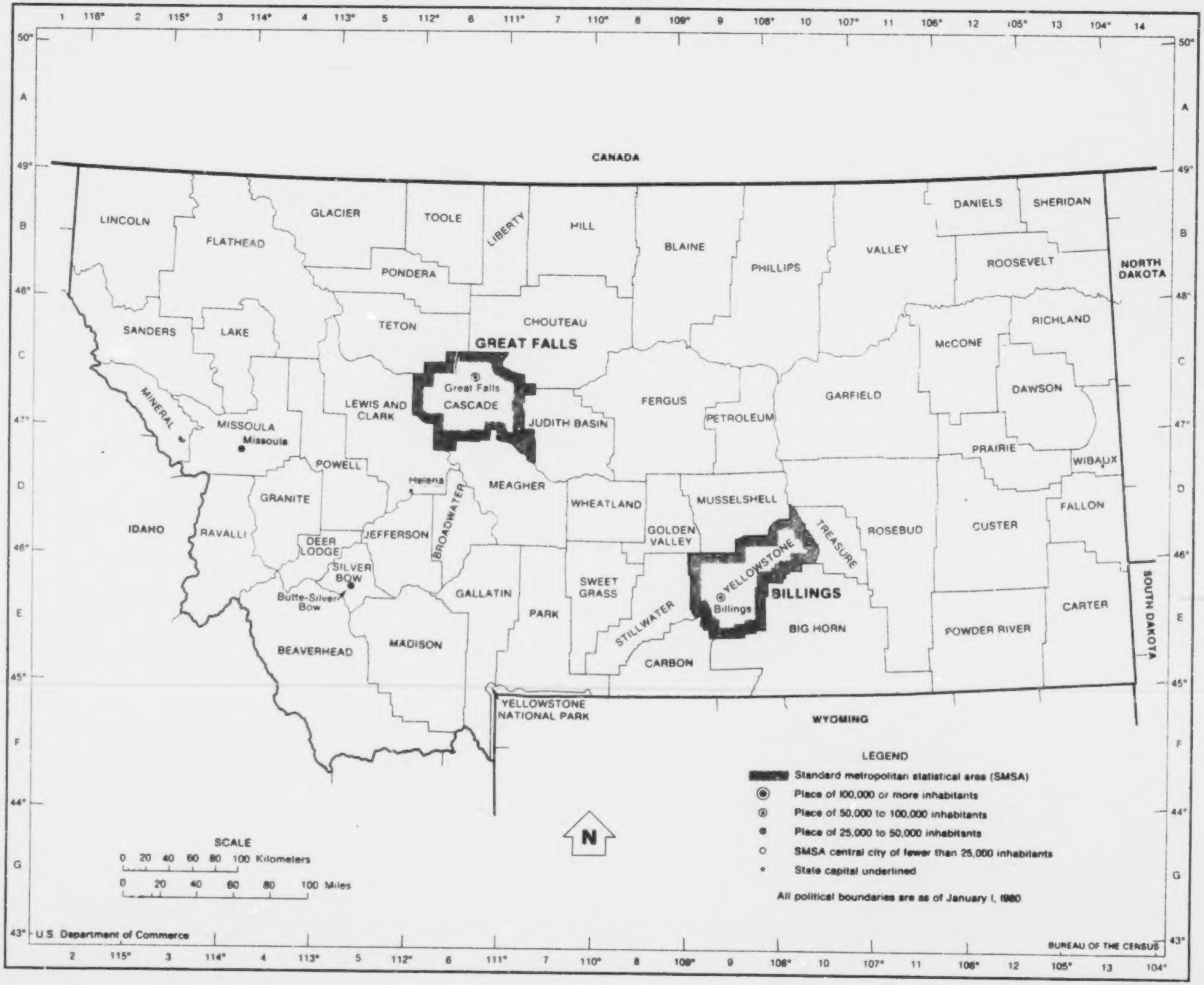
| | Number | Percent |
|---|---|---|
| Change | 92,281 | 13.3 |

| | Births | Deaths | Net Migration | |
|---|---|---|---|---|
| | | | Number | Percent |
| Components of Change (estimates) | 125,659 | 66,399 | 33,021 | 5 |

SOURCE: U.S. Bureau of the Census, 1980 Census. Number of Inhabitants, Montana and Montana Census & Economic Information Center, net migration computation.

# FIGURE I-2

Standard Metropolitan Statistical Areas, Counties, National Park (Part), and Selected Places


CANADA
NORTH DAKOTA
SOUTH DAKOTA
WYOMING
IDAHO
LINCOLN
FLATHEAD
GLACIER
TOOLE
LIBERTY
HILL
BLAINE
PHILLIPS
VALLEY
DANIELS
SHERIDAN
ROOSEVELT
PONDERA
SANDERS
LAKE
TETON
CHOUTEAU
GREAT FALLS
Great Falls
CASCADE
McCONE
RICHLAND
DAWSON
MINERAL
MISSOULA
Missoula
LEWIS AND CLARK
JUDITH BASIN
FERGUS
PETROLEUM
GARFIELD
PRAIRIE
WIBAUX
POWELL
Helena
MEAGHER
GRANITE
BROADWATER
WHEATLAND
MUSSELSHELL
ROSEBUD
CUSTER
FALLON
RAVALLI
DEER LODGE
JEFFERSON
GOLDEN VALLEY
TREASURE
SILVER BOW
Butte-Silver Bow
YELLOWSTONE
Billings
BILLINGS
GALLATIN
SWEET GRASS
STILLWATER
PARK
BIG HORN
POWDER RIVER
CARTER
BEAVERHEAD
MADISON
CARBON
YELLOWSTONE NATIONAL PARK
LEGEND
Standard metropolitan statistical area (SMSA)
Place of 100,000 or more inhabitants
Place of 50,000 to 100,000 inhabitants
Place of 25,000 to 50,000 inhabitants
SMSA central city of fewer than 25,000 inhabitants
State capital underlined
All political boundaries are as of January 1, 1980
N
SCALE
0 20 40 60 80 100 Kilometers
0 20 40 60 80 100 Miles
U.S. Department of Commerce
BUREAU OF THE CENSUS
116° 115° 114° 113° 112° 111° 110° 109° 108° 107° 106° 105° 104°
50° 49° 48° 47° 46° 45° 44° 43°
1 2 3 4 5 6 7 8 9 10 11 12 13 14
A B C D E F G

# TABLE I - 7

# MONTANA LAND AREA AND POPULATION

## 1930 to 1980

| | 1980 Land Area | | Population | | | | | 1980 | | | Percent Change | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| County | Square Miles | Square Kilometers | 1930 | 1940 | 1950 | 1960 | 1970 | Number | Per Sq. Mi. | Per Sq. Km. | 1960 to 1970 | 1970 to 1980 |
| Montana | 145,392 | 376,554 | 537,606 | 559,456 | 591,024 | 674,767 | 694,409 | 786,690 | 5.4 | 2.1 | 2.9 | 13.3 |
| Beaverhead | 5,529 | 14,319 | 6,654 | 6,943 | 6,671 | 7,194 | 8,187 | 8,186 | 1.5 | 0.6 | 13.8 | - |
| Big Horn | 4,983 | 12,906 | 8,543 | 10,419 | 9,824 | 10,007 | 10,057 | 11,096 | 2.2 | 0.9 | 0.5 | 10.3 |
| Blaine | 4,259 | 11,030 | 9,006 | 9,566 | 8,516 | 8,091 | 6,727 | 6,999 | 1.6 | 0.6 | -16.9 | 4.0 |
| Broadwater | 1,188 | 3,078 | 2,738 | 3,451 | 2,922 | 2,804 | 2,526 | 3,267 | 2.8 | 1.1 | -9.9 | 29.3 |
| Carbon | 2,056 | 5,325 | 12,571 | 11,865 | 10,241 | 8,317 | 7,080 | 8,099 | 3.9 | 1.5 | -14.9 | 14.4 |
| Carter | 3,342 | 8,657 | 4,136 | 3,280 | 2,798 | 2,493 | 1,956 | 1,799 | 0.5 | 0.2 | -21.5 | -8.0 |
| Cascade | 2,699 | 6,990 | 41,146 | 41,999 | 53,027 | 73,418 | 81,804 | 80,696 | 29.9 | 11.5 | 11.4 | -1.4 |
| Chouteau | 3,988 | 10,328 | 8,635 | 7,316 | 6,974 | 7,348 | 6,473 | 6,092 | 1.5 | 0.6 | -11.9 | -5.9 |
| Custer | 3,776 | 9,780 | 11,242 | 10,422 | 12,661 | 13,227 | 12,174 | 13,109 | 3.5 | 1.3 | -8.0 | 7.7 |
| Daniels | 1,427 | 3,696 | 5,553 | 4,563 | 3,946 | 3,755 | 3,083 | 2,835 | 2.0 | 0.8 | -17.9 | -8.0 |
| Dawson | 2,374 | 6,149 | 9,881 | 8,618 | 9,092 | 12,314 | 11,269 | 11,805 | 5.0 | 1.9 | -8.5 | 4.8 |
| Deer Lodge | 740 | 1,917 | 16,293 | 13,627 | 16,553 | 18,640 | 15,652 | 12,518 | 16.9 | 6.5 | -16.0 | -20.0 |
| Fallon | 1,623 | 4,203 | 4,568 | 3,719 | 3,660 | 3,997 | 4,050 | 3,763 | 2.3 | 0.9 | 1.3 | -7.1 |
| Fergus | 4,340 | 11,241 | 16,531 | 14,040 | 14,015 | 14,018 | 12,611 | 13,076 | 3.0 | 1.2 | -10.0 | 3.7 |
| Flathead | 5,112 | 13,241 | 19,200 | 24,271 | 31,495 | 32,965 | 39,460 | 51,966 | 10.2 | 3.9 | 19.7 | 31.7 |
| Gallatin | 2,510 | 6,500 | 16,124 | 18,269 | 21,902 | 26,045 | 32,505 | 42,865 | 17.1 | 6.6 | 24.8 | 31.9 |
| Garfield | 4,491 | 11,632 | 4,252 | 2,641 | 2,172 | 1,981 | 1,796 | 1,656 | 0.4 | 0.1 | -9.3 | -7.8 |
| Glacier | 2,995 | 7,756 | 5,297 | 9,034 | 9,645 | 11,565 | 10,783 | 10,628 | 3.5 | 1.4 | -6.8 | -1.4 |
| Golden Valley | 1,172 | 3,035 | 2,126 | 1,607 | 1,337 | 1,203 | 931 | 1,026 | 0.9 | 0.3 | -22.6 | 10.2 |
| Granite | 1,729 | 4,479 | 3,013 | 3,401 | 2,773 | 3,014 | 2,737 | 2,700 | 1.6 | 0.6 | -9.2 | -1.4 |
| Hill | 2,897 | 7,504 | 13,775 | 13,304 | 14,285 | 18,653 | 17,358 | 17,985 | 6.2 | 2.4 | -6.9 | 3.6 |
| Jefferson | 1,656 | 4,290 | 4,133 | 4,664 | 4,014 | 4,297 | 5,238 | 7,029 | 4.2 | 1.6 | 21.9 | 34.2 |
| Judith Basin | 1,871 | 4,845 | 5,238 | 3,655 | 3,200 | 3,085 | 2,667 | 2,646 | 1.4 | 0.5 | -13.5 | -0.8 |
| Lake | 1,493 | 3,866 | 9,541 | 13,490 | 13,835 | 13,104 | 14,445 | 19,056 | 12.8 | 4.9 | 10.2 | 31.9 |
| Lewis and Clark | 3,461 | 8,965 | 18,224 | 22,131 | 24,540 | 28,006 | 33,281 | 43,039 | 12.4 | 4.8 | 18.8 | 29.3 |
| Liberty | 1,427 | 3,695 | 2,198 | 2,209 | 2,180 | 2,624 | 2,359 | 2,329 | 1.6 | 0.6 | -10.1 | -1.3 |
| Lincoln | 3,616 | 9,365 | 7,089 | 7,882 | 8,693 | 12,537 | 18,063 | 17,752 | 4.9 | 1.9 | 44.1 | -1.7 |
| McCone | 2,626 | 6,802 | 4,790 | 3,798 | 3,258 | 3,321 | 2,875 | 2,702 | 1.0 | 0.4 | -13.4 | -6.0 |
| Madison | 3,590 | 9,298 | 6,323 | 7,294 | 5,998 | 5,211 | 5,014 | 5,448 | 1.5 | 0.6 | -3.8 | 8.7 |
| Meagher | 2,392 | 6,196 | 2,272 | 2,237 | 2,079 | 2,616 | 2,122 | 2,154 | 0.9 | 0.3 | -18.9 | 1.5 |
| Mineral | 1,216 | 3,150 | 1,626 | 2,135 | 2,081 | 3,037 | 2,958 | 3,675 | 3.0 | 1.2 | -2.6 | 24.2 |
| Missoula | 2,582 | 6,688 | 21,782 | 29,038 | 35,493 | 44,663 | 58,263 | 76,016 | 29.4 | 11.4 | 30.5 | 30.5 |
| Musselshell | 1,871 | 4,845 | 7,242 | 5,717 | 5,408 | 4,888 | 3,734 | 4,428 | 2.4 | 0.9 | -23.6 | 18.6 |
| Park | 2,665 | 6,902 | 10,922 | 11,566 | 11,999 | 13,168 | 11,197 | 12,869 | 4.8 | 1.8 | -15.0 | 13.1 |
| Petroleum | 1,652 | 4,279 | 2,045 | 1,083 | 1,026 | 894 | 675 | 655 | 0.4 | 0.2 | -24.5 | -3.0 |
| Phillips | 5,131 | 13,290 | 8,208 | 7,892 | 6,334 | 6,027 | 5,386 | 5,367 | 1.0 | 0.4 | -10.6 | -0.4 |
| Pondera | 1,632 | 4,226 | 6,964 | 6,716 | 6,392 | 7,653 | 6,611 | 6,731 | 4.1 | 1.6 | -13.6 | 1.8 |
| Powder River | 3,288 | 8,515 | 3,909 | 3,159 | 2,693 | 2,485 | 2,862 | 2,520 | 0.8 | 0.3 | 15.2 | -11.9 |
| Powell | 2,329 | 6,033 | 6,202 | 6,152 | 6,301 | 7,002 | 6,660 | 6,958 | 3.0 | 1.2 | -4.9 | 4.5 |
| Prairie | 1,732 | 4,487 | 3,941 | 2,410 | 2,377 | 2,318 | 1,752 | 1,836 | 1.1 | 0.4 | -24.4 | 4.8 |

## TABLE I - 7
(cont.)

| | 1980 Land Area | | Population | | | | | 1980 | | | Percent Change | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| County | Square Miles | Square Kilometers | 1930 | 1940 | 1950 | 1960 | 1970 | Number | Per Sq. Mi. | Per Sq. Km. | 1960 to 1970 | 1970 to 1980 |
| Ravalli | 2,384 | 6,175 | 10,315 | 12,978 | 13,101 | 12,341 | 14,409 | 22,493 | 9.4 | 3.6 | 16.8 | 56.1 |
| Richland | 2,081 | 5,391 | 9,633 | 10,209 | 10,366 | 10,504 | 9,837 | 12,243 | 5.9 | 2.3 | -6.3 | 24.5 |
| Roosevelt | 2,357 | 6,105 | 10,672 | 9,806 | 9,580 | 11,731 | 10,365 | 10,467 | 4.4 | 1.7 | 11.6 | 1.0 |
| Rosebud | 5,019 | 12,999 | 7,347 | 6,477 | 6,570 | 6,187 | 6,032 | 9,899 | 2.0 | 0.8 | -2.5 | 64.1 |
| Sanders | 2,749 | 7,119 | 5,692 | 6,926 | 6,983 | 6,880 | 7,093 | 8,675 | 3.2 | 1.2 | 3.1 | 22.3 |
| Sheridan | 1,681 | 4,354 | 9,869 | 7,814 | 6,674 | 6,458 | 5,779 | 5,414 | 3.2 | 1.2 | -10.5 | -6.3 |
| Silver Bow | 719 | 1,861 | 56,969 | 53,207 | 48,422 | 46,454 | 41,981 | 38,092 | 53.0 | 20.5 | -9.6 | -9.3 |
| Stillwater | 1,793 | 4,644 | 6,253 | 5,694 | 5,416 | 5,526 | 4,632 | 5,598 | 3.1 | 1.2 | -16.2 | 20.9 |
| Sweet Grass | 1,856 | 4,807 | 3,944 | 3,719 | 3,621 | 3,290 | 2,980 | 3,216 | 1.7 | 0.7 | -9.4 | 7.9 |
| Teton | 2,275 | 5,893 | 6,068 | 6,922 | 7,232 | 7,295 | 6,116 | 6,491 | 2.9 | 1.1 | -16.2 | 6.1 |
| Toole | 1,931 | 5,001 | 6,714 | 6,769 | 6,867 | 7,904 | 5,839 | 5,559 | 2.9 | 1.1 | -26.1 | -4.8 |
| Treasure | 975 | 2,526 | 1,661 | 1,499 | 1,402 | 1,345 | 1,069 | 981 | 1.0 | 0.4 | -20.5 | -8.2 |
| Valley | 4,936 | 12,785 | 11,181 | 15,181 | 11,353 | 17,080 | 11,471 | 10,250 | 2.1 | 0.8 | -32.8 | -10.6 |
| Wheatland | 1,419 | 3,676 | 3,751 | 3,286 | 3,187 | 3,026 | 2,529 | 2,359 | 1.7 | 0.6 | -16.4 | -6.7 |
| Wibaux | 888 | 2,301 | 2,767 | 2,161 | 1,907 | 1,698 | 1,465 | 1,476 | 1.7 | 0.6 | -13.7 | 0.8 |
| Yellowstone | 2,624 | 6,796 | 30,785 | 41,182 | 55,875 | 79,016 | 87,367 | 108,035 | 41.2 | 15.9 | 10.6 | 23.7 |
| Yellowstone National Park | 245 | 634 | 52 | 43 | 58 | 47 | 64 | 66 | 1.1 | 0.4 | 36.2 | 329.7 |

SOURCE: U.S. Bureau of the Census, 1980 Census, Number of Inhabitants, Montana, p. 28-8.

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# TABLE I - 8

## ESTIMATES OF THE POPULATION OF MONTANA COUNTIES
## 1980 - 1983

| | | | | | | | Components of Change, 1980-82[2] | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Change, 1980-82 | | | | Net Migration | |
| County | 4/1/80 Census | 7/1/81[1] | 7/1/82 Provis.[1] | * 1983 Tentative | Number | Percent | Births | Deaths | Number | Percent |
| Montana | 786,690 | 796,000 | 804,000 | * | 18,000 | 2.2 | 32,000 | 15,000 | 1,000 | 0.1 |
| Beaverhead | 8,186 | 8,200 | 8,500 | 8,600 | 300 | 4.1 | 300 | 200 | 200 | 2.6 |
| Big Horn | 11,096 | 11,500 | 11,400 | 11,500 | 300 | 2.7 | 700 | 300 | -100 | -0.9 |
| Blaine | 6,999 | 6,900 | 6,900 | 7,000 | -100 | -1.2 | 300 | 200 | -300 | -3.9 |
| Broadwater | 3,267 | 3,200 | 3,300 | 3,400 | (Z) | 0.6 | 100 | 100 | (Z) | -0.6 |
| Carbon | 8,099 | 8,100 | 8,300 | 8,500 | 200 | 2.5 | 300 | 200 | 200 | 1.9 |
| Carter | 1,799 | 1,700 | 1,700 | 1,700 | -100 | -4.6 | 100 | (Z) | -100 | -5.9 |
| Cascade | 80,696 | 80,100 | 80,100 | 80,900 | -600 | -0.8 | 3,400 | 1,400 | -2,700 | -3.3 |
| Chouteau | 6,092 | 6,000 | 6,100 | 6,100 | (Z) | 0.8 | 300 | 100 | -100 | -1.1 |
| Custer | 13,109 | 13,200 | 13,300 | 13,400 | 200 | 1.7 | 500 | 300 | 100 | 0.5 |
| Daniels | 2,835 | 2,800 | 2,800 | 2,800 | (Z) | -1.2 | 100 | 100 | (Z) | -1.7 |
| Dawson | 11,805 | 12,300 | 12,700 | 12,500 | 900 | 7.9 | 600 | 200 | 600 | 5.0 |
| Deer Lodge | 12,518 | 12,000 | 11,600 | 11,500 | -900 | -7.5 | 300 | 400 | -900 | -7.0 |
| Fallon | 3,763 | 3,700 | 3,800 | 3,800 | (Z) | 0.4 | 200 | 100 | -100 | -2.2 |
| Fergus | 13,076 | 12,900 | 13,000 | 13,000 | -100 | -0.8 | 500 | 300 | -300 | -2.0 |
| Flathead | 51,966 | 52,200 | 52,300 | 53,200 | 300 | 0.7 | 2,100 | 900 | -800 | -1.6 |
| Gallatin | 42,865 | 43,900 | 45,300 | 46,100 | 2,400 | 5.6 | 1,500 | 600 | 1,400 | 3.3 |
| Garfield | 1,656 | 1,700 | 1,700 | 1,700 | (Z) | 1.0 | 100 | (Z) | (Z) | -1.9 |
| Glacier | 10,628 | 10,900 | 11,000 | 11,200 | 400 | 3.8 | 600 | 200 | (Z) | (Z) |
| Golden Valley | 1,026 | 1,100 | 1,100 | 1,100 | 100 | 5.5 | (Z) | (Z) | (Z) | 3.3 |
| Granite | 2,700 | 2,700 | 2,600 | 2,700 | -100 | -2.1 | 100 | 100 | -100 | -2.7 |
| Hill | 17,985 | 18,300 | 18,500 | 18,600 | 500 | 3.0 | 800 | 300 | (Z) | 0.2 |
| Jefferson | 7,029 | 7,200 | 7,300 | 7,900 | 200 | 3.5 | 300 | 100 | 100 | 1.1 |
| Judith Basin | 2,646 | 2,800 | 2,700 | 2,700 | (Z) | 0.3 | 100 | 100 | (Z) | -0.1 |
| Lake | 19,056 | 19,200 | 19,400 | 19,900 | 300 | 1.6 | 800 | 400 | -100 | -0.5 |
| Lewis & Clark | 43,039 | 43,900 | 44,300 | 45,100 | 1,300 | 3.0 | 1,700 | 700 | 300 | 0.7 |
| Liberty | 2,329 | 2,400 | 2,400 | 2,400 | 100 | 3.6 | 100 | (Z) | (Z) | 0.1 |
| Lincoln | 17,752 | 17,900 | 18,000 | 18,200 | 300 | 1.5 | 700 | 300 | -200 | -1.1 |
| McCone | 2,702 | 2,700 | 2,800 | 2,700 | 100 | 2.4 | 100 | (Z) | (Z) | -0.2 |
| Madison | 5,448 | 5,700 | 5,800 | 5,800 | 300 | 5.6 | 200 | 200 | 300 | 4.6 |
| Meagher | 2,154 | 2,200 | 2,200 | 2,300 | 100 | 3.8 | 100 | (Z) | (Z) | 2.3 |
| Mineral | 3,675 | 3,600 | 3,500 | 3,500 | -100 | -3.9 | 200 | 100 | -300 | -6.8 |
| Missoula | 76,016 | 76,400 | 75,200 | 75,600 | -900 | -1.1 | 3,100 | 1,100 | -2,800 | -3.7 |
| Musselshell | 4,428 | 4,600 | 4,600 | 4,700 | 200 | 4.8 | 200 | 100 | 100 | 3.3 |
| Park | 12,869 | 13,400 | 13,300 | 13,500 | 400 | 3.3 | 500 | 300 | 200 | 1.7 |
| Petroleum | 655 | 700 | 700 | 700 | (Z) | 1.7 | (Z) | (Z) | (Z) | -1.2 |
| Phillips | 5,367 | 5,400 | 5,400 | 5,600 | (Z) | 0.9 | 200 | 100 | -100 | -1.0 |
| Pondera | 6,731 | 6,700 | 6,800 | 7,000 | 100 | 1.7 | 300 | 100 | (Z) | -0.2 |
| Powder River | 2,520 | 2,500 | 2,500 | 2,500 | -100 | -2.1 | 100 | (Z) | -100 | -4.7 |
| Powell | 6,958 | 6,900 | 6,700 | 6,700 | -200 | -3.2 | 300 | 200 | -300 | -4.4 |
| Prairie | 1,836 | 1,900 | 1,900 | 1,900 | 100 | 3.6 | (Z) | (Z) | 100 | 3.3 |
| Ravalli | 22,493 | 23,200 | 23,500 | 24,000 | 1,000 | 4.5 | 800 | 500 | 700 | 3.0 |

TABLE I-8
(cont.)

| County | 4/1/80 Census | 7/1/81[1] | 7/1/82 Provis.[1] | * 1983 Tentative | Change, 1980-82 | | Components of Change, 1980-82[2] | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Number | Percent | Births | Deaths | Net Migration | |
| | | | | | | | | | Number | Percent |
| Richland | 12,243 | 13,700 | 14,900 | 14,700 | 2,700 | 22.0 | 800 | 200 | 2,100 | 17.5 |
| Roosevelt | 10,467 | 10,800 | 11,300 | 11,500 | 800 | 7.7 | 600 | 300 | 500 | 4.6 |
| Rosebud | 9,899 | 10,900 | 12,200 | 13,600 | 2,300 | 22.9 | 600 | 200 | 1,800 | 18.6 |
| Sanders | 8,675 | 8,700 | 9,000 | 9,100 | 300 | 3.8 | 300 | 200 | 200 | 2.3 |
| Sheridan | 5,414 | 5,700 | 6,000 | 6,000 | 600 | 10.8 | 200 | 100 | 500 | 8.8 |
| Silver Bow | 38,092 | 37,600 | 36,600 | 36,200 | -1,500 | -4.0 | 1,200 | 1,100 | -1,700 | -4.4 |
| Stillwater | 5,598 | 5,600 | 5,800 | 6,000 | 200 | 3.3 | 200 | 200 | 200 | 2.8 |
| Sweet Grass | 3,216 | 3,300 | 3,300 | 3,300 | 100 | 2.2 | 100 | 100 | (Z) | 1.4 |
| Teton | 6,491 | 6,500 | 6,400 | 6,500 | -100 | -1.4 | 300 | 100 | -200 | -3.4 |
| Toole | 5,559 | 5,600 | 5,700 | 5,800 | 100 | 1.7 | 300 | 100 | -100 | -0.9 |
| Treasure | 981 | 1,000 | 1,000 | 1,000 | (Z) | 4.0 | (Z) | (Z) | (Z) | 1.9 |
| Valley | 10,250 | 10,100 | 9,900 | 9,900 | -300 | -2.9 | 400 | 200 | -500 | -5.1 |
| Wheatland | 2,359 | 2,200 | 2,300 | 2,300 | -100 | -4.2 | 100 | 100 | -100 | -5.1 |
| Wibaux | 1,476 | 1,600 | 1,600 | 1,500 | 100 | 6.5 | 100 | (Z) | 100 | 4.7 |
| Yellowstone | 108,035 | 110,200 | 113,400 | 116,800 | 5,300 | 4.9 | 4,300 | 1,700 | 2,700 | 2.5 |
| Yellowstone National Park | 66 | 100 | 100 | 100 | (Z) | 1.5 | (Z) | (Z) | (Z) | 1.5 |

(Z) - Less than 50 persons or less than 0.05 percent.

[1] The State estimates shown in this report supersede those published earlier in Current Population Reports, Series P-25, No. 927.

[2] Births and deaths are based on reported vital statistics from 4/1/80 to 12/31/81, with extrapolations to 6/30/82. Net migration is the difference between net change and natural change.

*NOTE: 1983 county population estimates do not add to the U.S. Bureau of the Census statewide estimate of 815,000 due to differing methodology. It is recommended that the latter figure be used rather than the sum of county population for a statewide figure.

SOURCES: Census and Economic Information Center, Montana Department of Commerce, 1983 county population estimates. All other figures are from the U.S. Bureau of the Census, Local Population Estimates, February 1984.

## TABLE I - 9

## MONTANA POPULATION OF PLACES

## 1960 to 1980

| Incorporated Places & Census-Designated Places | County | 1960 | 1970 | 1980 |
|---|---|---|---|---|
| Alberton town | Mineral | 356 | 363 | 368 |
| Anaconda-Deer Lodge County | Deer Lodge | 12,054 | 9,771 | 12,518* |
| Bainville town | Roosevelt | 285 | 217 | 245 |
| Baker city | Fallon | 2,365 | 2,584 | 2,354 |
| Bearcreek town | Carbon | 61 | 31 | 61 |
| Belgrade town | Gallatin | 1,057 | 1,307 | 2,336 |
| Belt city | Cascade | 757 | 656 | 825 |
| Bigfork (CDP) | Flathead | (NA) | (NA) | 1,080 |
| Big Sandy town | Chouteau | 954 | 827 | 835 |
| Big Timber city | Sweet Grass | 1,660 | 1,592 | 1,690 |
| Billings city | Yellowstone | 52,851 | 61,581 | 66,842 |
| Billings Heights (CDP) | Yellowstone | (NA) | (NA) | 8,480 |
| Bonner-West Riverside (CDP) | Missoula | (NA) | (NA) | 1,742 |
| Boulder town | Jefferson | 1,394 | 1,342 | 1,441 |
| Bozeman city | Gallatin | 13,361 | 18,670 | 21,645 |
| Bridger town | Carbon | 824 | 717 | 724 |
| Broadus town | Powder River | 628 | 799 | 712 |
| Broadview town | Yellowstone | 160 | 123 | 120 |
| Brockton town | Roosevelt | 367 | 401 | 374 |
| Browning town | Glacier | 2,011 | 1,700 | 1,226 |
| Butte-Silver Bow | Silver Bow | 27,877 | 23,368 | 37,205* |
| Cascade town | Cascade | 604 | 714 | 773 |
| Chester town | Liberty | 1,158 | 936 | 963 |
| Chinook city | Blaine | 2,326 | 1,813 | 1,660 |
| Choteau city | Teton | 1,966 | 1,586 | 1,798 |
| Circle town | McCone | 1,117 | 964 | 931 |
| Clyde Park town | Park | 253 | 244 | 283 |
| Colstrip (CDP) | Rosebud | (NA) | (NA) | 1,476 |
| Columbia Falls city | Flathead | 2,132 | 2,652 | 3,112 |
| Columbus town | Stillwater | 1,281 | 1,173 | 1,439 |
| Conrad city | Pondera | 2,665 | 2,770 | 3,074 |
| Culbertson town | Roosevelt | 919 | 821 | 887 |
| Cut Bank city | Glacier | 4,539 | 4,004 | 3,688 |
| Darby town | Ravalli | 398 | 538 | 581 |
| Deer Lodge city | Powell | 4,681 | 4,306 | 4,023 |
| Denton town | Fergus | 410 | 398 | 356 |
| Dillon city | Beaverhead | 3,690 | 4,548 | 3,976 |
| Dodson town | Phillips | 313 | 196 | 158 |
| Drummond town | Granite | 577 | 494 | 414 |
| Dutton town | Teton | 504 | 415 | 359 |

TABLE I - 9
(cont.)

| Incorporated Places & Census-Designated Places | County | 1960 | 1970 | 1980 |
|---|---|---|---|---|
| East Helena town | Lewis & Clark | 1,490 | 1,651 | 1,647 |
| East Missoula (CDP) | Missoula | (NA) | (NA) | 1,707 |
| Ekalaka town | Carter | 738 | 663 | 620 |
| Ennis town | Madison | 525 | 501 | 660 |
| Eureka town | Lincoln | 1,229 | 1,195 | 1,119 |
| Evergreen (CDP) | Flathead | (NA) | (NA) | 3,746 |
| Fairfield town | Teton | 752 | 638 | 650 |
| Fairview city | Richland | 1,006 | 956 | 1,366 |
| Flaxville town | Daniels | 262 | 185 | 142 |
| Forsyth city | Rosebud | 2,032 | 1,873 | 2,553 |
| Fort Benton city | Chouteau | 1,887 | 1,863 | 1,693 |
| Froid town | Roosevelt | 418 | 330 | 323 |
| Fromberg town | Carbon | 367 | 364 | 469 |
| Geraldine town | Chouteau | 364 | 370 | 305 |
| Glasgow city | Valley | 6,398 | 4,700 | 4,455 |
| Glendive city | Dawson | 7,058 | 6,305 | 5,978 |
| Grass Range town | Fergus | 222 | 181 | 139 |
| Great Falls city | Cascade | 55,244 | 60,091 | 56,725 |
| Hamilton city | Ravalli | 2,475 | 2,499 | 2,661 |
| Hardin city | Big Horn | 2,789 | 2,733 | 3,300 |
| Harlem city | Blaine | 1,267 | 1,094 | 1,023 |
| Harlowton city | Wheatland | 1,734 | 1,375 | 1,181 |
| Havre city | Hill | 10,740 | 10,558 | 10,891 |
| Havre North (CDP) | Hill | 1,168 | 1,073 | 1,230 |
| Helena city | Lewis & Clark | 20,227 | 22,730 | 23,938 |
| Hingham town | Hill | 254 | 262 | 186 |
| Hobson town | Judith Basin | 207 | 192 | 261 |
| Hot Springs town | Sanders | 585 | 664 | 601 |
| Hysham town | Treasure | 494 | 373 | 449 |
| Ismay town | Custer | 59 | 40 | 31 |
| Joliet town | Carbon | 452 | 412 | 580 |
| Jordan town | Garfield | 557 | 529 | 485 |
| Judith Gap city | Wheatland | 185 | 160 | 213 |
| Kalispell city | Flathead | 10,151 | 10,526 | 10,648 |
| Kevin town | Toole | 375 | 250 | 208 |
| Laurel city | Yellowstone | 4,601 | 4,454 | 5,481 |
| Lavina town | Golden Valley | 212 | 169 | 164 |
| Lewistown city | Fergus | 7,408 | 6,437 | 7,104 |
| Libby city | Lincoln | 2,828 | 3,286 | 2,748 |
| Lima town | Beaverhead | 397 | 351 | 272 |

TABLE I - 9
(cont.)

| Incorporated Places & Census-Designated Places | County | 1960 | 1970 | 1980 |
|---|---|---|---|---|
| Livingston city | Park | 8,229 | 6,883 | 6,994 |
| Lodge Grass town | Big Horn | 687 | 806 | 771 |
| Lolo (CDP) | Missoula | (NA) | (NA) | 2,418 |
| Malmstrom AFB (CDP) | Cascade | (NA) | 8,374 | 6,675 |
| Malta city | Phillips | 2,239 | 2,195 | 2,367 |
| Manhattan town | Gallatin | 889 | 816 | 988 |
| Medicine Lake town | Sheridan | 452 | 393 | 408 |
| Melstone town | Musselshell | 266 | 227 | 238 |
| Miles City city | Custer | 9,665 | 9,023 | 9,602 |
| Missoula city | Missoula | 27,090 | 29,497 | 33,388 |
| Missoula South (CDP) | Missoula | (NA) | 4,886 | 5,557 |
| Moore town | Fergus | 216 | 219 | 229 |
| Nashua town | Valley | 796 | 513 | 495 |
| Neihart town | Cascade | 150 | 109 | 91 |
| Opheim town | Valley | 457 | 306 | 210 |
| Orchard Homes (CDP) | Missoula | (NA) | (NA) | 10,837 |
| Outlook town | Sheridan | 226 | 153 | 122 |
| Philipsburg town | Granite | 1,107 | 1,128 | 1,138 |
| Pinesdale town | Ravalli |  |  | 458 |
| Plains town | Sanders | 769 | 1,046 | 1,116 |
| Plentywood city | Sheridan | 2,121 | 2,381 | 2,476 |
| Plevna town | Fallon | 263 | 189 | 191 |
| Polson city | Lake | 2,314 | 2,464 | 2,798 |
| Poplar city | Roosevelt | 1,565 | 1,389 | 995 |
| Rattlesnake (CDP) | Missoula | (NA) | 1,492 | 3,474 |
| Red Lodge city | Carbon | 2,278 | 1,844 | 1,896 |
| Rexford town | Lincoln | (NA) | 243 | 130 |
| Richey town | Dawson | 480 | 389 | 417 |
| Ronan city | Lake | 1,334 | 1,347 | 1,530 |
| Roundup city | Musselshell | 2,842 | 2,116 | 2,119 |
| Ryegate town | Golden Valley | 314 | 261 | 273 |
| Saco town | Phillips | 490 | 356 | 252 |
| St. Ignatius town | Lake | 940 | 925 | 877 |
| Scobey city | Daniels | 1,726 | 1,486 | 1,382 |
| Shelby city | Toole | 4,017 | 3,111 | 3,142 |
| Sheridan town | Madison | 539 | 636 | 646 |
| Sidney city | Richland | 4,564 | 4,543 | 5,726 |
| Stanford town | Judith Basin | 615 | 505 | 595 |
| Stevensville town | Ravalli | 784 | 829 | 1,207 |
| Sunburst town | Toole | 882 | 604 | 476 |
| Superior town | Mineral | 1,242 | 993 | 1,054 |
| Terry city | Prairie | 1,140 | 870 | 929 |
| Thompson Falls town | Sanders | 1,274 | 1,356 | 1,478 |

TABLE I - 9
(cont.)

| Incorporated Places & Census-Designated Places | County | 1960 | 1970 | 1980 |
|---|---|---|---|---|
| Three Forks town | Gallatin | 1,161 | 1,188 | 1,247 |
| Townsend city | Broadwater | 1,528 | 1,371 | 1,587 |
| Troy town | Lincoln | 855 | 1,046 | 1,088 |
| Twin Bridges town | Madison | 509 | 613 | 437 |
| Valier town | Pondera | 724 | 651 | 640 |
| Vaughn (CDP) | Cascade | (NA) | (NA) | 2,270 |
| Virginia City town | Madison | 194 | 149 | 192 |
| Walkerville city | Silver Bow | 1,453 | 1,097 | 887 |
| Westby town | Sheridan | 309 | 287 | 291 |
| West Yellowstone town | Gallatin | (NA) | 756 | 735 |
| Whitefish city | Flathead | 2,965 | 3,349 | 3,703 |
| Whitehall town | Jefferson | 898 | 1,035 | 1,030 |
| White Sulphur Springs city | Meagher | 1,519 | 1,200 | 1,302 |
| Wibaux town | Wibaux | 766 | 644 | 782 |
| Winifred town | Fergus | 220 | 190 | 155 |
| Winnett town | Petroleum | 360 | 271 | 207 |
| Wolf Point city | Roosevelt | 3,585 | 3,095 | 3,074 |

* Consolidated city-county population.

(NA) - Not available.
CDP - Census-designated place.

SOURCE: U.S. Bureau of the Census, 1980 Census of Population, Number of Inhabitants, Montana, p. 28-14, with some editorial changes.

## TABLE I - 10

## LAND AREA AND POPULATION, PLACES OF 2,500 OR MORE: 1980

| All Places of 2,500 or more | 1980 Land Area Sq.Mi. | 1980 Population Number | Per Sq.Mi. | % Change 1970-80 |
|---|---|---|---|---|
| * Anaconda-Deer Lodge County | 740.2 | 12,518 | 16.9 | 28.1 |
| Billings | 20.3 | 66,842 | 3,291.1 | 8.5 |
| Billings Heights (CDP) | 5.7 | 8,480 | 1,485.1 | (NA) |
| Bozeman | 7.6 | 21,645 | 2,844.3 | 15.9 |
| **Butte-Silver Bow | 713.0 | 37,205 | 52.2 | 59.2 |
| Columbia Falls | 1.2 | 3,112 | 2,593.3 | 17.3 |
| Conrad | 1.9 | 3,074 | 1,626.5 | 11.0 |
| Cut Bank | 1.2 | 3,688 | 3,179.3 | -7.9 |
| Deer Lodge | 1.9 | 4,023 | 2,128.6 | -6.6 |
| Dillon | 1.4 | 3,976 | 2,780.4 | -12.6 |
| Evergreen (CDP) | 2.6 | 3,746 | 1,469.0 | (NA) |
| Forsyth | 1.8 | 2,553 | 1,410.5 | 36.3 |
| Glasgow | 1.3 | 4,455 | 3,400.8 | -5.2 |
| Glendive | 3.1 | 5,978 | 1,934.6 | -5.2 |
| Great Falls | 16.1 | 56,725 | 3,523.3 | -5.6 |
| Hamilton | 1.2 | 2,661 | 2,217.5 | 6.5 |
| Hardin | 1.2 | 3,300 | 2,844.8 | 20.7 |
| Havre | 2.7 | 10,891 | 4,033.7 | 3.2 |
| Helena | 13.3 | 23,938 | 1,797.1 | 5.3 |
| Kalispell | 3.4 | 10,648 | 3,068.6 | 1.2 |
| Laurel | 1.3 | 5,481 | 4,184.0 | 23.1 |
| Lewistown | 1.2 | 7,104 | 6,124.1 | 10.4 |
| Libby | 1.0 | 2,748 | 2,748.0 | -16.4 |
| Livingston | 2.3 | 6,994 | 3,067.5 | 1.6 |
| Malmstrom AFB (CDP) | 2.6 | 6,675 | 2,577.2 | -20.3 |
| Miles City | 3.0 | 9,602 | 3,190.0 | 6.4 |
| Missoula | 11.1 | 33,388 | 3,013.4 | 13.2 |
| Missoula South (CDP) | 1.7 | 5,557 | 3,347.6 | 13.7 |
| Orchard Homes (CDP) | 7.6 | 10,837 | 1,424.0 | (NA) |
| Polson | 1.3 | 2,798 | 2,135.9 | 13.6 |
| Rattlesnake (CDP) | 2.6 | 3,474 | 1,362.4 | 132.8 |
| Shelby | 1.2 | 3,142 | 2,533.9 | 1.0 |
| Sidney | 1.5 | 5,726 | 3,718.2 | 26.0 |
| Whitefish | 2.2 | 3,703 | 1,683.2 | 10.6 |
| Wolf Point | 0.9 | 3,074 | 3,416.5 | -0.7 |

* Anaconda city and the balance of Deer Lodge County were consolidated and are now designated as Anaconda-Deer Lodge County.

** Butte city was consolidated with the balance of Silver Bow County except Walkerville city and is now designated as Butte-Silver Bow.

(NA) - Not available.
CDP - Census-designated place.

SOURCE: Census and Economic Information Center, Montana Dept. of Commerce, from U.S. Bureau of the Census files.

## TABLE I - 11

## MONTANA POPULATION BY URBAN AND RURAL RESIDENCE

## 1970 AND 1980

| Residence | 1970 Number | 1970 % of Total | 1980 Number | 1980 % of Total | % Change 1970-80 |
|---|---|---|---|---|---|
| Total Population | 694,409 | 100.0 | 786,690 | 100.0 | 13.3 |
| Urban | 370,676 | 53.4 | 416,402 | 52.9 | 12.3 |
| Rural | 323,733 | 46.6 | 370,288 | 47.1 | 14.4 |
| Places 1000 to 2500 | 53,685 | 7.7 | 56,206 | 7.1 | 4.7 |
| Places Less than 1000 | 31,347 | 4.5 | 30,386 | 3.9 | -3.1 |
| Other Rural Areas | 238,701 | 34.4 | 283,696 | 36.1 | 18.8 |

SOURCE: U.S. Bureau of the Census, Census of Population and Housing, 1970 and 1980 Computer Tapes.

TABLE I - 12

PERCENT URBAN/RURAL RESIDENCE OF POPULATION

| | 1950 | 1960 | 1970 | 1980 |
|---|---|---|---|---|
| United States: | | | | |
| Rural | 36.0 | 30.1 | 26.5 | 26.3 |
| Urban | 64.0 | 69.9 | 73.5 | 73.7 |
| Montana: | | | | |
| Rural | 56.3 | 49.8 | 46.6 | 47.1 |
| Urban | 43.7 | 50.2 | 53.4 | 52.9 |
| Idaho: | | | | |
| Rural | 57.1 | 52.5 | 45.9 | 46.0 |
| Urban | 42.9 | 47.5 | 54.1 | 54.0 |
| Wyoming: | | | | |
| Rural | 50.2 | 43.2 | 39.5 | 37.3 |
| Urban | 49.8 | 56.8 | 60.5 | 62.7 |

NOTE: According to the 1980 census definition, the urban population comprises all persons living in: 1) places of 2,500 of more inhabitants incorporated as cities, villages, boroughs (except in AK and NY) and towns (except in the New England states, NY, and WI), but excluding those persons living in the rural portions of extended cities (places with low population density in one or more large parts of their areas); 2) census-designated places (previously termed unincoroporated) of 2,500 or more inhabitants; and 3) other territory, incorporated or unincorporated, included in urbanized areas. An urbanized area consists of a central city or a central core, together with contiguous closely settled territory, that combined have a total population of at least 50,000.

In censuses prior to 1950, the urban population comprised all persons living in incorporated places of 2,500 or more inhabitants and areas (usually minor civil divisions) classified as urban under special rules relating to population size and density. To improve its measure of the urban population, the Bureau of the Census in 1950 adopted the concept of the urbanized area and delineated boundaries for unincorporated places. The 1950 definition has continued substantially unchanged, except for minor modifications in 1960, the introduction of the extended city concept in 1970, and changes in the criteria for defining urbanized areas for 1980 so as to permit such areas to be defined around smaller centers. In all definitions, the population not classified as urban constitutes the rural population.

SOURCE: U.S. Bureau of the Census, Statistical Abstract of the United States (various years).

## TABLE I - 13

## MONTANA POPULATION BY RESIDENCE

| Group | 1980 Persons | % of Total | % Change 1960-70 | % Change 1970-80 |
|---|---|---|---|---|
| Urban Population | 416,402 | 52.9 | +9.5 | +12.3 |
| Rural Population | 370,288 | 47.1 | -3.7 | +14.4 |
| Rural Population In Places of Less Than 2,500 | 86,592 | 11.0 | -6.5 | +1.8 |

SOURCE: U.S. Bureau of the Census, 1980 Census, Number of Inhabitants, Montana.

TABLE I - 14

## METROPOLITAN AND NONMETROPOLITAN AREA POPULATION
1970 TO 1980
(As of April 1. Excludes Armed Forces abroad)

| | TOTAL (1,000) | | | % CHANGE | % OF STATE | | |
|---|---|---|---|---|---|---|---|
| | 1983 Defin.[1] | | 1980 (1981 Def.[2]) | 1970-80 (1983 Def.[1]) | 1983 Defin.[1] | | 1980 (1981 Def.[2]) |
| | 1970 | 1980 | | | 1970 | 1980 | |
| METROPOLITAN AREA POPULATION: | | | | | | | |
| United States | 155,413 | 171,777 | 169,431 | 10.5 | 76.4 | 75.8 | 74.8 |
| Mountain States: | 5,029 | 7,102 | 7,173 | 41.2 | 60.7 | 62.4 | 63.1 |
| Montana | 169 | 189 | 189 | 11.6 | 24.4 | 24.0 | 24.0 |
| Idaho | 112 | 173 | 173 | 54.2 | 15.7 | 18.3 | 18.3 |
| Wyoming | 51 | 72 | 72 | 40.2 | 15.4 | 15.3 | 15.3 |
| NONMETROPOLITAN AREA POPULATION: | | | | | | | |
| United States | 47,889 | 54,769 | 57,115 | 14.4 | 23.6 | 24.2 | 25.2 |
| Mountain States: | 3,261 | 4,271 | 4,200 | 31.0 | 39.3 | 37.6 | 36.9 |
| Montana | 525 | 598 | 598 | 13.8 | 75.6 | 76.0 | 76.0 |
| Idaho | 601 | 771 | 771 | 28.3 | 84.3 | 81.7 | 81.7 |
| Wyoming | 281 | 398 | 398 | 41.5 | 84.6 | 84.7 | 84.7 |

NOTES: Mountain States are Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, and Nevada.

"Metropolitan" population is the population in Standard Metropolitan Statistical Areas (SMSA's). In 1980, most SMSA's had cities of at least 50,000 population with adjacent areas with at least another 50,000. An SMSA may also consist of a central city which, together with contiguous places (incorporated or unincorporated) having population densities of at least 1,000 persons per square mile, has a combined population of at least 50,000 and constitutes, for general economic and social purposes, a single community.

In Montana there are two SMSA's of this latter type -- the Great Falls and Billings areas. In the United States, there were 318 SMSA's as of June 1983. (Explanation from U.S. Bureau of the Census, State and Metropolitan Area Data Book, 1982, pp. XV to XXIV.)

[1] Refers to 253 metropolitan statistical areas and 22 consolidated metropolitan statistical areas as defined by U.S. Office of Mgmt. & Budget, 6/30/83.

[2] Refers to 318 standard metropolitan statistical areas as defined by U.S. Office of Mgmt.& Budget, 6/30/81.

SOURCE: U.S. Bureau of the Census, 1980 Census, Number of Inhabitants, Montana, Statistical Abstract of the U.S., 1984 and forthcoming report.

## TABLE I - 15

## ESTIMATES OF POPULATION OF METROPOLITAN STATISTICAL AREAS AND THEIR COMPONENT COUNTIES, MONTANA

## JULY 1, 1981 AND 1982

| | Billings MSA | Yellowstone Co. | Great Falls MSA | Cascade Co. | Montana | |
|---|---|---|---|---|---|---|
| | | | | | Metro. | NonMetro. |
| 4/1/80 Pop. (census) | 108,035 | 108,035 | 80,696 | 80,696 | 188,731 | 597,959 |
| 7/1/81 Pop. | 110,200 | 110,200 | 80,100 | 80,100 | 190,300 | 605,600 |
| 7/1/82 Pop. (provisional) | 113,400 | 113,400 | 80,100 | 80,100 | 193,400 | 610,900 |
| 7/1/83 Pop. (tentative) | 116,800 | 116,800 | 80,900 | 80,900 | 197,700 | 617,300 |
| Change, 1980-82[1]: | | | | | | |
| Number | 5,300 | 5,300 | -600 | -600 | 4,700 | 12,900 |
| Percent | 4.9 | 4.9 | -0.8 | -0.8 | 2.5 | 2.2 |
| Births | 4,300 | 4,300 | 3,400 | 3,400 | 7,800 | 24,400 |
| Deaths | 1,700 | 1,700 | 1,400 | 1,400 | 3,100 | 11,900 |
| Net Migration, 1980-82[2]: | | | | | | |
| Number | 2,700 | 2,700 | -2,700 | -2,700 | 100 | 500 |
| Percent | 2.5 | 2.5 | -3.3 | -3.3 | (Z) | 0.1 |

(Z) - less than 50 persons or less than 0.05 percent

[1] Births and deaths are based on reported vital statistics from 4/1/80 to 12/31/81 with extrapolations to 6/30/82.

[2] Net migration is the difference between net change and natural change.

SOURCE: U.S. Bureau of the Census, Local Population Estimates, Series P-26, February 1984; Census & Economic Information Center, Montsana Dept. of Commerce for 1983 estimates.

## TABLE I - 16

## PERSONS BY ANCESTRY IN MONTANA
1980

| Ancestry | Number | Percent |
|---|---|---|
| Dutch | 7,993 | 1.0 |
| English | 58,456 | 7.4 |
| French | 11,607 | 1.5 |
| German | 108,658 | 13.8 |
| Greek | 763 | 0.1 |
| Hungarian | 1,047 | 0.1 |
| Irish | 40,742 | 5.2 |
| Italian | 6,869 | 0.9 |
| Norwegian | 36,414 | 4.6 |
| Polish | 4,906 | 0.6 |
| Portugese | 320 | (Z) |
| Russian | 1,625 | 0.2 |
| Scottish | 8,043 | 1.0 |
| Swedish | 12,198 | 1.6 |
| Ukranian | 570 | 0.1 |
| Other | 72,002 | 9.2 |
| Multiple Ancestry | 311,953 | 39.6 |
| Not Specified | 37,599 | 4.8 |
| Not Reported | 64,925 | 8.3 |
| TOTAL: | 786,690 | 100.0 |

(Z) - less than 0.05 percent

SOURCE: U.S. Bureau of the Census, 1980 Summary Tape File 3A, Montana.

## TABLE I - 17

## MONTANA POPULATION BY RACE
1900 - 1970

| | White | Amer. Ind. | Black | Jpn. | Chn. | Flpno. | All Other | Total |
|---|---|---|---|---|---|---|---|---|
| 1900 | | | | | | | | |
| Number | 226,283 | 11,343 | 1,523 | 2,441 | 1,739 | 0 | na | 243,329 |
| Percent | 93.0 | 4.7 | 0.6 | 1.0 | 0.7 | 0.0 | na | 100.0 |
| 1910 | | | | | | | | |
| Number | 360,580 | 10,745 | 1,834 | 1,585 | 1,285 | * | 24 | 376,053 |
| Percent | 95.9 | 2.9 | 0.5 | 0.4 | 0.3 | 0.0 | (Z) | 100.0 |
| 1920 | | | | | | | | |
| Number | 534,260 | 10,956 | 1,658 | 1,074 | 872 | * | 69 | 548,889 |
| Percent | 97.3 | 2.0 | 0.3 | 0.2 | 0.2 | 0.0 | (Z) | 100.0 |
| 1930 | | | | | | | | |
| Number | 519,898 | 14,798 | 1,256 | 753 | 486 | 295 | 120 | 537,606 |
| Percent | 96.7 | 2.8 | 0.2 | 0.1 | 0.1 | 0.1 | (Z) | 100.0 |
| 1940 | | | | | | | | |
| Number | 540,468 | 16,841 | 1,120 | 508 | 258 | * | 261 | 559,456 |
| Percent | 96.6 | 3.0 | 0.2 | 0.1 | (Z) | * | (Z) | 100.0 |
| 1950 | | | | | | | | |
| Number | 572,038 | 16,606 | 1,232 | 524 | 209 | * | 415 | 591,024 |
| Percent | 96.8 | 2.8 | 0.2 | 0.1 | (Z) | * | 0.1 | 100.0 |
| 1960 | | | | | | | | |
| Number | 650,738 | 21,181 | 1,467 | 589 | 240 | 253 | 299 | 674,767 |
| Percent | 96.4 | 3.1 | 0.2 | 0.1 | (Z) | (Z) | (Z) | 100.0 |
| 1970 | | | | | | | | |
| Number | 663,043 | 27,130 | 1,995 | 574 | 289 | 236 | 1,142 | 694,409 |
| Percent | 95.5 | 3.9 | 0.3 | 0.1 | (Z) | (Z) | 0.2 | 100.0 |

* included with "all other"

(Z) - less than 0.05 percent

SOURCE: U.S. Bureau of the Census, 1970 Census, Characteristics of the Population, Montana, 1973, p. 33.

TABLE I - 18

## RESIDENT POPULATION, BY RACE AND SPANISH ORIGIN
1980

| Race/Origin | MONTANA<br>Number | Percent | UNITED STATES<br>Number | Percent |
|---|---|---|---|---|
| Total | 786,690 | 100.0 | 6,545,805 | 100.0 |
| White | 740,901 | 94.2 | 189,035,012 | 83.4 |
| Black | 1,738 | 0.2 | 26,482,349 | 11.7 |
| American Indian | 37,623 | 4.8 | 1,478,523 | 0.7 |
| Chinese | 395 | 0.1 | 812,178 | 0.4 |
| Filipino | 501 | 0.1 | 781,894 | 0.3 |
| Japanese | 803 | 0.1 | 716,331 | 0.3 |
| Asian Indian | 154 | (Z) | 387,223 | 0.2 |
| Korean | 325 | (Z) | 357,393 | 0.2 |
| Vietnamese | 82 | (Z) | 245,025 | 0.1 |
| All Other Races* | 4,168 | 0.5 | 6,249,877 | 2.8 |
| Spanish Origin** | 10,103 | 1.3 | 14,603,683 | 6.4 |

* Other races include Eskimo, Aleut, Hawaiian, Guamanian, Samoan, other, and not elsewhere classified.

** Spanish origin can be of any race.

(Z) less than 0.05 percent

SOURCE: U. S. Bureau of the Census, 1980 Census, General Social and Economic Characteristics, U.S. Summary, 1983, pp. 279 and 280.

# TABLE I - 19

## GENERAL AND SELECTED SOCIAL CHARACTERISTICS FOR THE TOTAL AND AMERICAN INDIAN PERSONS ON RESERVATIONS, 1980

|  |  | American Indian |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Reservation | Total Persons | Total | Percent of Total Persons | Male | Female | Under 5 Years | 5-17 Years | 18-64 Years | 65 Yrs & Over | 16 Yrs & Over | Median Age |
| Blackfeet Reservation, MT | 6,660 | 5,080 | 76.3 | 2,460 | 2,620 | 681 | 1,497 | 2,551 | 351 | 3,154 | 21.2 |
| Glacier County (pt.) | 6,039 | 4,555 | 75.4 | 2,189 | 2,366 | 613 | 1,316 | 2,299 | 327 | 2,846 | 21.5 |
| Pondera County (pt.) | 621 | 525 | 84.5 | 271 | 254 | 68 | 181 | 252 | 24 | 308 | 19.0 |
| Crow Reservation, MT | 5,973 | 3,953 | 66.2 | 1,930 | 2,023 | 546 | 1,243 | 2,001 | 163 | 2,416 | 20.1 |
| Big Horn County (pt.) | 5,637 | 3,839 | 68.1 | 1,873 | 1,966 | 533 | 1,195 | 1,949 | 162 | 2,350 | 20.2 |
| Yellowstone County (pt.) | 336 | 114 | 33.9 | 57 | 57 | 13 | 48 | 52 | 1 | 66 | 17.4 |
| Flathead Reservation, MT | 19,628 | 3,771 | 19.2 | 1,985 | 1,786 | 412 | 1,157 | 1,992 | 210 | 2,444 | 21.1 |
| Flathead County (pt.) | 30 | 4 | 13.3 | ... | ... | ... | ... | ... | ... | ... | ... |
| Lake County (pt.) | 17,058 | 3,140 | 18.4 | 1,646 | 1,494 | 349 | 965 | 1,658 | 168 | 2,036 | 20.7 |
| Missoula County (pt.) | 653 | 283 | 43.3 | 153 | 130 | 26 | 100 | 142 | 15 | 172 | 20.9 |
| Sanders County (pt.) | 1,887 | 344 | 18.2 | 183 | 161 | 37 | 92 | 188 | 27 | 232 | 25.7 |
| Belknap Reservation, MT | 2,060 | 1,870 | 90.8 | 963 | 907 | 238 | 622 | 910 | 100 | 1,123 | 19.6 |
| Blaine County (pt.) | 1,854 | 1,711 | 92.3 | 878 | 833 | 224 | 572 | 830 | 85 | 1,017 | 19.4 |
| Phillips County (pt.) | 206 | 159 | 77.2 | 85 | 74 | 14 | 50 | 80 | 15 | 106 | 23.8 |
| Ft. Peck Reservation, MT | 9,921 | 4,273 | 43.1 | 2,092 | 2,181 | 599 | 1,381 | 2,086 | 207 | 2,539 | 19.7 |
| Daniels County (pt.) | 126 | - | - | - | - | - | - | - | - | - | - |
| Roosevelt County (pt.) | 8,333 | 3,795 | 45.5 | 1,848 | 1,947 | 529 | 1,215 | 1,866 | 185 | 2,264 | 19.9 |
| Sheridan County (pt.) | 179 | - | - | - | - | - | - | - | - | - | - |
| Valley County (pt.) | 1,283 | 478 | 37.3 | 244 | 234 | 70 | 166 | 220 | 22 | 275 | 18.2 |
| Northern Cheyenne Reservation, MT | 3,664 | 3,101 | 84.6 | 1,533 | 1,568 | 467 | 1,079 | 1,452 | 103 | 1,709 | 18.1 |
| Big Horn County (pt.) | 1,013 | 822 | 81.1 | 396 | 426 | 128 | 284 | 382 | 28 | 449 | 18.0 |
| Rosebud County (pt.) | 2,651 | 2,279 | 86.0 | 1,137 | 1,142 | 339 | 795 | 1,070 | 75 | 1,260 | 18.1 |
| Rocky Boy's Reservation, MT | 1,650 | 1,549 | 93.9 | 758 | 791 | 213 | 575 | 695 | 66 | 864 | 17.7 |
| Chouteau County (pt.) | 139 | 129 | 92.8 | 58 | 71 | 16 | 44 | 63 | 6 | 79 | 19.8 |
| Hill County (pt.) | 1,511 | 1,420 | 94.0 | 700 | 720 | 197 | 531 | 632 | 60 | 785 | 17.6 |
| Other reservation lands in MT* | 8 | 1 | 12.5 | ... | ... | ... | ... | ... | ... | ... | ... |
| Big Horn County (pt.) | 8 | 1 | 12.5 | ... | ... | ... | ... | ... | ... | ... | ... |

---

* Includes land in Big Horn County, Montana identified as belonging to both the Crow and Northern Cheyenne Reservations.

TABLE I - 19
(cont.)

| Reservation | American Indian: Families: Married Couple | American Indian: Families: Female Householder no Husb. Present | American Indian: Persons Per Household | American Indian: Persons 5 yrs & over % who speak Language Other than Engl. at at Home | American Indian: Civilians 16-19 yrs % not Enrolled in School, not High Sch. Graduates | American Indian: Families- % w/own Chldrn Under 6 Yrs | American Indian: Persons under 18 - % Living w/ 2 Parents | American Indian: Children ever born per 1,000 Women 35-44 Yrs |
|---|---|---|---|---|---|---|---|---|
| Blackfeet Reservation, MT | 777 | 249 | 3.99 | 13.6 | 26.9 | 33.2 | 63.5 | 4,280 |
| Glacier County (pt.) | 700 | 231 | 3.89 | 11.8 | 29.6 | 33.4 | 61.0 | 4,030 |
| Pondera County (pt.) | 77 | 18 | 5.07 | 28.7 | 8.6 | 30.5 | 81.6 | 5,556 |
| Crow Reservation, MT | 540 | 167 | 4.95 | 77.0 | 17.5 | 33.1 | 63.3 | 4,229 |
| Big Horn County (pt.) | 521 | 164 | 4.96 | 77.9 | 18.3 | 34.0 | 62.5 | 4,159 |
| Yellowstone County (pt.) | 19 | 3 | 4.74 | 43.2 | - | - | 92.5 | 5,000 |
| Flathead Reservation, MT | 573 | 209 | 3.50 | 17.8 | 12.1 | 30.7 | 51.9 | 4,306 |
| Flathead County (pt.) | ... | ... | ... | - | - | - | - | - |
| Lake County (pt.) | 457 | 185 | 3.50 | 18.4 | 12.7 | 32.2 | 50.4 | 4,376 |
| Missoula County (pt.) | 45 | 13 | 4.03 | 14.9 | - | 8.5 | 60.9 | 3,909 |
| Sanders County (pt.) | 69 | 11 | 3.18 | - | - | 47.8 | 100.0 | - |
| Belknap Reservation, MT | 235 | 112 | 4.32 | 4.8 | 37.7 | 30.3 | 59.3 | 5,429 |
| Blaine County (pt.) | 205 | 107 | 4.38 | 4.4 | 37.7 | 32.5 | 59.0 | 5,820 |
| Phillips County (pt.) | 30 | - | 3.73 | 12.9 | - | - | 68.0 | - |
| Ft. Peck Reservation, MT | 518 | 251 | 4.06 | 17.8 | 49.8 | 36.3 | 53.6 | 4,860 |
| Daniels County (pt.) | - | - | - | - | - | - | - | - |
| Roosevelt County (pt.) | 457 | 231 | 3.98 | 17.6 | 55.5 | 36.8 | 52.8 | 4,566 |
| Sheridan County (pt.) | - | - | - | - | - | - | - | - |
| Valley County (pt.) | 61 | 20 | 4.71 | 19.7 | 14.0 | 32.0 | 58.5 | 6,469 |
| Northern Cheyenne Reservation, MT | 406 | 172 | 4.25 | 44.3 | 20.0 | 43.1 | 53.4 | 4,500 |
| Big Horn County (pt.) | 121 | 41 | 4.39 | 36.5 | 12.1 | 40.9 | 78.6 | 3,267 |
| Rosebud County (pt.) | 285 | 131 | 4.20 | 46.9 | 22.2 | 43.9 | 45.5 | 5,039 |
| Rocky Boy's Reservation, MT | 207 | 73 | 4.98 | 53.4 | 26.1 | 44.1 | 74.3 | 5,452 |
| Chouteau County (pt.) | 21 | 3 | 4.23 | - | 34.8 | 30.8 | 88.9 | 3,545 |
| Hill County (pt.) | 186 | 70 | 5.06 | 59.4 | 24.8 | 45.7 | 73.0 | 5,790 |
| Other reservation lands in MT* | ... | ... | ... | - | - | - | - | - |
| Big Horn County (pt.) | ... | ... | ... | - | - | - | - | - |

* Includes land in Big Horn County identified as belonging to both the Crow and Northern Cheyenne Reservations.

A dash "-" represents zero or a percent which rounds to less than 0.1.
Three dots "..." mean not applicable, or that the data are being withheld to avoid disclosure of information for individuals.

SOURCE: U.S. Bureau of the Census, 1980 Census, General Population Characteristics, Montana, Table 55; and General Social and Economic Characteristics, Montana, Table 192.

TABLE I - 20

## MONTANA BLACKFEET TRIBE SPECIAL CENSUS
## POPULATION BY RACE, AGE, SEX, & SPANISH ORIGIN: 1983

| Item | Total Population | Indian | White | Black | Pacific Islander | Other | Spanish Origin* |
|---|---|---|---|---|---|---|---|
| Blackfeet Reservation: | 8,851 | 7,284 | 1,534 | 2 | 11 | 20 | 60 |
| Glacier County | 8,220 | 6,728 | 1,460 | 2 | 11 | 19 | 58 |
| Pondera County | 631 | 556 | 74 | 0 | 0 | 1 | 2 |
| Browning City | 1,226 | 1,102 | 122 | 0 | 0 | 2 | 5 |
| Male | 4,441 | 3,622 | 802 | NA | NA | 9 | 28 |
| Female | 4,410 | 3,662 | 732 | NA | NA | 11 | 32 |
| Age Distribution: | | | | | | | |
| Under 5 Yrs | 1,143 | 1,010 | 129 | | | | 11 |
| 5 - 9 Yrs | 945 | 823 | 114 | | | | 8 |
| 10 - 14 Yrs | 921 | 800 | 119 | | | | 2 |
| 15 - 19 Yrs | 867 | 780 | 85 | | | | 5 |
| 20 - 24 Yrs | 880 | 776 | 103 | | | | 8 |
| 25 - 29 Yrs | 826 | 669 | 153 | | | | 4 |
| 30 - 34 Yrs | 678 | 499 | 175 | | | | 6 |
| 35 - 39 Yrs | 488 | 360 | 125 | | | | 3 |
| 40 - 44 Yrs | 448 | 349 | 98 | | | | 1 |
| 45 - 49 Yrs | 394 | 305 | 88 | | | | 2 |
| 50 - 54 Yrs | 344 | 253 | 91 | | | | 1 |
| 55 - 59 Yrs | 262 | 169 | 92 | | | | 2 |
| 60 - 64 Yrs | 239 | 175 | 64 | | | | 4 |
| 65 - 69 Yrs | 145 | 111 | 33 | | | | 1 |
| 70 - 74 Yrs | 114 | 88 | 25 | | | | 0 |
| 75 - 79 Yrs | 59 | 46 | 13 | | | | 2 |
| 80 Yrs & Over | 98 | 71 | 27 | | | | 0 |
| 18 Yrs & Over | 5,322 | 4,188 | 1,116 | | | | 39 |
| 62 Yrs & Over | 553 | 419 | 132 | | | | 5 |
| 65 Yrs & Over | 416 | 316 | 98 | | | | 3 |
| Median Age | 23.2 | 21.5 | 31.8 | | | | 22.0 |

* Persons of Spanish origin may be of any race.

NOTE: The special census included some other sex, by race, by age and household information not published here.

SOURCE: U.S. Bureau of the Census, Blackfeet Tribe, Montana, Special Census, October 24, 1983.

## TABLE I - 21

## MONTANA BLACKFEET TRIBE SPECIAL CENSUS
## HOUSING UNITS BY RACE & SPANISH ORIGIN: 1983

| Item | Total | Indian | White | Spanish Origin* |
|---|---|---|---|---|
| Total Occupied Housing | 2,371 | 1,826 | 536 | 17 |
| Owner-Occupied Housing | 1,560 | 1,182 | 369 | 7 |
| Percent Occupied Units | 65.8% | 64.7% | 68.6% | 41.2% |
| Renter-Occupied Housing | 811 | 644 | 167 | 10 |
| Percent Occupied Units | 34.2% | 35.3% | 31.2% | 58.8% |
| Persons Per Occupying Unit: | 3.6 | 3.8 | 2.7 | 2.7 |
| Owner-Occupied | 3.7 | 4.0 | 2.9 | 1.9 |
| Renter-Occupied | 3.4 | 3.6 | 2.5 | 3.2 |

* Persons of Spanish origin may be of any race.

SOURCE: U.S. Bureau of the Census, Blackfeet Tribe, Montana, Special Census, October 24, 1983.

## TABLE I - 22

## MONTANA HOUSEHOLDS BY SIZE
1980

| | Number of Households | Percent of Total |
|---|---|---|
| One Person | 66,350 | 23.4 |
| Two Persons | 90,517 | 31.9 |
| Three Persons | 46,980 | 16.6 |
| Four Persons | 44,314 | 15.6 |
| Five or More Persons | 35,581 | 12.5 |

SOURCE: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Montana.

## TABLE I - 23

## MONTANA HOUSEHOLDS BY TYPE

| | 1960 | 1970 | 1980 |
|---|---|---|---|
| Married Couple Households | 150,263 | 152,374 | 178,606 |
| One-Person Households | 33,987 | 43,037 | 66,350 |

SOURCE: U.S. Bureau of the Census, Census of Population & Housing: 1980 & 1970, Computer Tapes; 1960, V.1, Pt. 28.

## TABLE I - 24

## MONTANA HOUSEHOLDS* AND FAMILIES** BY TYPE

## 1980 AND 1970

| Item | 1970 | 1980 | Percent Change 1970-1980 |
|---|---|---|---|
| Number of Households | 217,304 | 283,742 | 30.6 |
| w/Persons 60 Yrs. & Over | NA | 81,675 | NA |
| Number of One-Person Households | 43,037 | 66,350 | 54.2 |
| w/Householder 60 Yrs. & Over | NA | 31,108 | NA |
| Persons per Household, MT | 3.10 | 2.70 | -12.9 |
| Persons per Household, US | 3.14 | 2.76 | |
| Number of Families | 170.093 | 205,290 | 20.7 |
| Husband-Wife Families | 152,374 | 178,606 | 17.2 |
| Families w/Female Head | 13,448 | 20,117 | 49.6 |
| Persons per Family, MT | 3.62 | 3.24 | -10.5 |
| Persons per Family, US | 3.58 | 3.28 | 8.4 |

* Household: All persons who occupy a group of rooms or a single room, which constitutes a housing unit when it is occupied as separate living quarters.

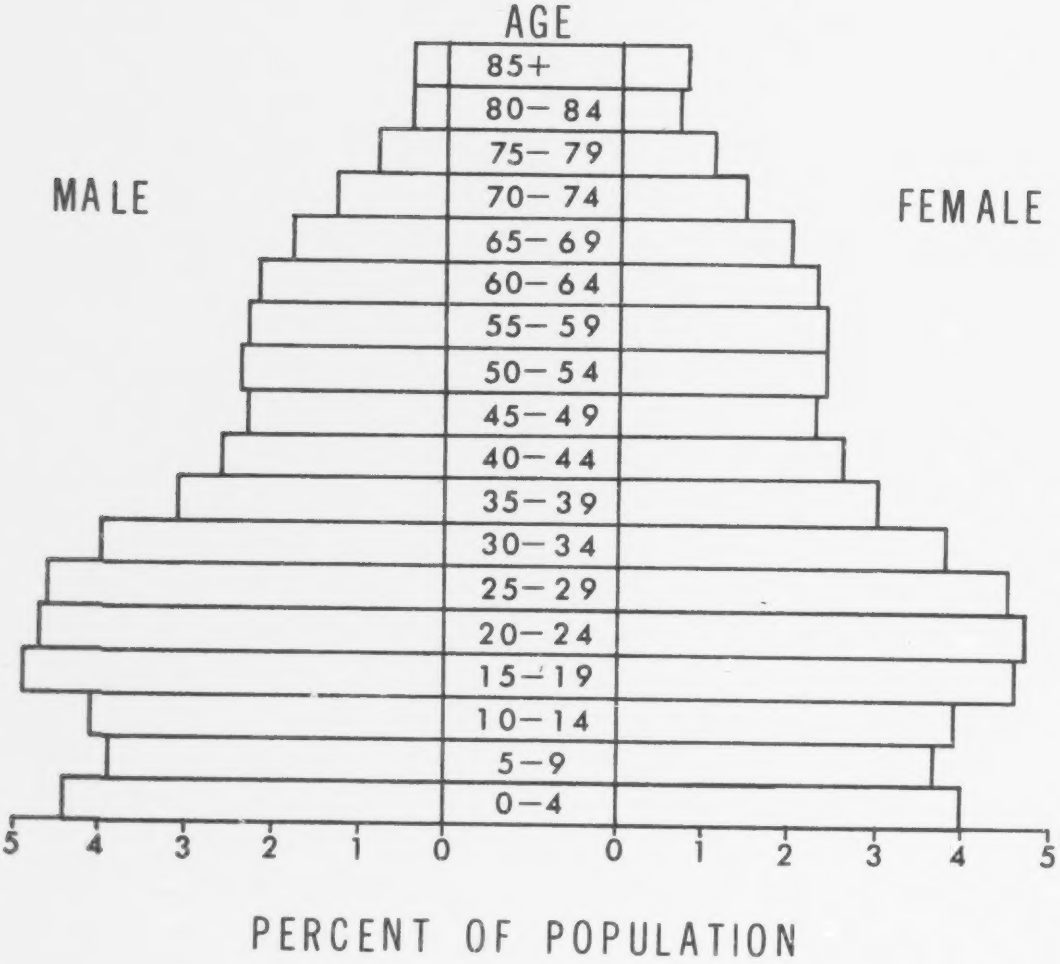
** Family: Household head and one or more persons living in same household who are related to the head.

NA - not available

SOURCE: U.S. Bureau of the Census, Census of Population & Housing, 1970 & 1980, Computer Tapes.

FIGURE I-3

## Montana–1980



Source: U.S. Bureau of the Census.

## TABLE I - 25

## MONTANA POPULATION BY AGE AND SEX
## 1970 AND 1980

| Age/Sex Group | 1970 Number | 1970 Percent of Total | 1980 Number | 1980 Percent of Total | Percent Change 1970-1980 |
|---|---|---|---|---|---|
| Total, All Ages: | 694,409 | 100.0 | 786,690 | 100.0 | 13.3 |
| Under 5 | 57,054 | 8.2 | 64,455 | 8.2 | 13.0 |
| 5 to 17 | 196,071 | 28.2 | 167,440 | 21.3 | -14.6 |
| 18 to 59 | 344,113 | 49.6 | 435,555 | 55.4 | 26.6 |
| 60 to 64 | 28,435 | 4.1 | 34,681 | 4.4 | 22.0 |
| 65 and over | 68,736 | 9.9 | 84,559 | 10.7 | 23.0 |
| 5 years old | 12,989 | 1.9 | 11,961 | 1.5 | -7.9 |
| 18 years old | 13,473 | 1.9 | 14,854 | 1.9 | 10.3 |
| Under 15 | 207,930 | 29.2 | 187,232 | 23.8 | -10.0 |
| Median Age: | 27.1 | ... | 29.0 | ... | 7.0 |
| Male, All Ages: | 347,005 | 100.0 | 392,625 | 100.0 | 13.1 |
| Under 5 | 29,120 | 8.4 | 33,092 | 8.4 | 13.6 |
| 5 to 17 | 99,726 | 28.7 | 85,975 | 21.9 | -13.8 |
| 18 to 59 | 171,779 | 49.5 | 219,561 | 55.9 | 27.8 |
| 60 to 64 | 14,585 | 4.2 | 16,946 | 4.3 | 16.2 |
| 65 and over | 31,795 | 9.2 | 37,051 | 9.4 | 16.5 |
| 5 years old | 6,694 | 1.9 | 6,171 | 1.6 | -7.8 |
| 18 years old | 6,733 | 1.9 | 7,743 | 2.0 | 15.0 |
| Under 15 | 105,807 | 30.5 | 95,846 | 24.4 | -9.4 |
| Median Age: | 26.6 | ... | 28.4 | ... | 6.8 |
| Female, All Ages: | 347,404 | 100.0 | 394,065 | 100.0 | 13.4 |
| Under 5 | 27,934 | 8.0 | 31,363 | 8.0 | 12.3 |
| 5 to 17 | 96,345 | 27.7 | 81,465 | 20.7 | -15.4 |
| 18 to 59 | 172,334 | 49.6 | 215,994 | 54.8 | 25.3 |
| 60 to 64 | 13,850 | 4.0 | 17,735 | 4.5 | 28.1 |
| 65 and over | 36,941 | 10.6 | 47,508 | 12.1 | 28.6 |
| 5 years old | 6,295 | 1.8 | 5,790 | 1.5 | -8.0 |
| 18 years old | 6,740 | 1.9 | 7,111 | 1.8 | 5.5 |
| Under 15 | 102,123 | 29.4 | 91,386 | 23.2 | -10.5 |
| Median Age: | 27.6 | ... | 29.6 | ... | 7.2 |

SOURCE: U.S. Bureau of the Census, Census of Population: 1970 & 1980, Computer Tapes.

## TABLE I - 26

## MONTANA POPULATION BY AGE
## 1960, 1970, AND 1980

| Age Group | 1960 |  | 1970 |  | 1980 |  |
|---|---|---|---|---|---|---|
|  | Number | Percent | Number | Percent | Number | Percent |
| All Ages | 674,767 | 100.0 | 694,409 | 100.0 | 786,690 | 100.0 |
| Under 10 Yrs. | 160,150 | 23.7 | 129,312 | 18.6 | 124,693 | 15.9 |
| 10 to 19 Yrs. | 117,809 | 17.5 | 148,964 | 21.5 | 137,161 | 17.4 |
| 20 to 29 Yrs. | 78,460 | 11.6 | 93,724 | 13.5 | 145,534 | 18.5 |
| 30 to 39 Yrs. | 84,502 | 12.5 | 73,940 | 10.6 | 109,454 | 13.9 |
| 40 to 49 Yrs. | 83,141 | 12.3 | 77,397 | 11.1 | 76,688 | 9.7 |
| 50 to 59 Yrs. | 61,827 | 9.2 | 73,901 | 10.6 | 73,920 | 9.4 |
| 60 to 69 Yrs. | 46,255 | 6.9 | 50,463 | 7.3 | 64,290 | 8.2 |
| 70 to 79 Yrs. | 33,142 | 4.9 | 30,678 | 4.4 | 36,841 | 4.7 |
| 80 Yrs. and Over | 9,481 | 1.4 | 16,030 | 2.3 | 18,109 | 2.3 |
| Median Age | 27.6 | (X) | 27.1 | (X) | 29.0 | (X) |

(X) - Not applicable.

SOURCE: U.S. Bureau of the Census, Census of Population: 1970 & 1980, Computer Tapes; 1960, V.1, Pt.28.

## TABLE I - 27

## 1983 PROVISIONAL ESTIMATES

## U.S. & MONTANA AGE DISTRIBUTION OF POPULATION

| Age Group | U.S. (Percent) | Montana (Percent) |
|---|---|---|
| Under 5 | 7.6 | 8.7 |
| 5 to 14 | 14.3 | 15.3 |
| 15 to 24 | 17.5 | 16.6 |
| 25 to 34 | 17.2 | 17.6 |
| 35 to 44 | 12.6 | 12.4 |
| 45 to 54 | 9.5 | 9.2 |
| 55 to 64 | 9.5 | 8.8 |
| 65 and Over | 11.7 | 11.4 |
| Total* | 100.0 | 100.0 |

* May not add to exactly 100 percent due to rounding.

SOURCE: U.S. Bureau of the Census, Population Estimates and Projections, Series P-25, No. 951, May, 1984. Percentage calculations by Census and Economic Information Center, Montana Dept. of Commerce.

## TABLE I - 28

## PROVISIONAL ESTIMATES OF MONTANA POPULATION BY AGE
## 1981 - 1983

| Age Group | 1981 | 1982 | 1983 |
|---|---|---|---|
| Under 5 | 67,000 | 69,000 | 71,000 |
| 5 to 14 | 122,000 | 123,000 | 125,000 |
| 15 to 24 | 144,000 | 140,000 | 136,000 |
| 25 to 34 | 139,000 | 141,000 | 144,000 |
| 35 to 44 | 91,000 | 96,000 | 101,000 |
| 45 to 54 | 74,000 | 74,000 | 75,000 |
| 55 to 64 | 71,000 | 71,000 | 72,000 |
| 65 and Over | 88,000 | 90,000 | 93,000 |
| Total: | 796,000 | 805,000* | 817,000 |

* Does not add up exactly, due to rounding.

SOURCE: U.S. Bureau of the Census, Population Estimates and Projections, Series P-25, May 1984.

## TABLE I - 29

## PERCENT BORN IN STATE OF RESIDENCE

| | 1960 | 1970 | 1980 |
|---|---|---|---|
| United States | 66.5 | 64.8 | 63.8 |
| Montana | 59.7 | 59.7 | 56.9 |

SOURCE: Personal Communication, Population Division, U.S. Bureau of the Census, September 11, 1984.

## TABLE I - 30

## PLACE OF BIRTH, NATIVE POPULATION* 1970 AND 1980

| Group | 1970 | 1980 |
|---|---|---|
| Total Native Population | 674,814 | 768,371 |
| Born in Montana | 403,128 | 448,342 |
| Born in Different State | 243,986 | 315,900 |
| Percent of Total | 36.2 | 41.1 |
| Born Abroad, at Sea, etc. | 5,712 | 4,129 |
| State of Birth not reported | 21,988 | ... |

* persons born in the US, in the Commonwealth of Puerto Rico, in an outlying area of the US, or at sea

SOURCE: U.S. Bureau of the Census, 1980 Census, Computer Tape; 1970, V.1, Pt.28, Montana, Bureau of Records & Statistics, Montana Dept. of Health & Environmental Sciences, Montana Vital Statistics (years indicated)

TABLE I - 31

## MONTANA COUNTY POPULATION, HISTORY & PROJECTIONS
(rounded to nearest 100)

| County | 1960 | 1970 | 1980 | 1990* | 2000* |
|---|---|---|---|---|---|
| Beaverhead | 7,200 | 8,200 | 8,200 | 8,200 | 8,300 |
| Big Horn | 10,000 | 10,100 | 11,100 | 13,400 | 14,900 |
| Blaine | 8,100 | 6,700 | 7,000 | 6,800 | 6,600 |
| Broadwater | 2,800 | 2,500 | 3,300 | 3,300 | 3,300 |
| Carbon | 8,300 | 7,100 | 8,100 | 8,900 | 9,900 |
| Carter | 2,500 | 2,000 | 1,800 | 1,700 | 1,500 |
| Cascade | 73,400 | 81,800 | 80,700 | 86,000 | 92,100 |
| Chouteau | 7,300 | 6,500 | 6,100 | 6,100 | 5,800 |
| Custer | 13,200 | 12,200 | 13,100 | 13,700 | 14,500 |
| Daniels | 3,800 | 3,100 | 2,800 | 2,600 | 2,300 |
| Dawson | 12,300 | 11,300 | 11,800 | 11,900 | 12,200 |
| Deer Lodge | 18,600 | 15,700 | 12,500 | 10,500 | 9,900 |
| Fallon | 4,000 | 4,100 | 3,800 | 3,800 | 3,800 |
| Fergus | 14,000 | 12,600 | 13,100 | 13,300 | 13,600 |
| Flathead | 33,000 | 39,500 | 52,000 | 58,500 | 65,500 |
| Gallatin | 26,000 | 32,500 | 42,900 | 48,800 | 55,300 |
| Garfield | 2,000 | 1,800 | 1,700 | 1,600 | 1,400 |
| Glacier | 11,600 | 10,800 | 10,600 | 11,100 | 11,600 |
| Golden Valley | 1,200 | 900 | 1,000 | 900 | 900 |
| Granite | 3,000 | 2,700 | 2,700 | 2,700 | 2,700 |
| Hill | 18,700 | 17,400 | 18,000 | 19,000 | 20,100 |
| Jefferson | 4,300 | 5,200 | 7,000 | 8,200 | 9,600 |
| Judith Basin | 3,100 | 2,700 | 2,600 | 2,400 | 2,200 |
| Lake | 13,100 | 14,400 | 19,100 | 21,300 | 23,500 |
| Lewis & Clark | 28,000 | 33,300 | 43,000 | 51,100 | 59,500 |
| Liberty | 2,600 | 2,400 | 2,300 | 2,300 | 2,200 |
| Lincoln | 12,500 | 18,100 | 17,700 | 18,300 | 18,700 |
| McCone | 3,300 | 2,900 | 2,700 | 2,500 | 2,300 |
| Madison | 5,200 | 5,000 | 5,400 | 5,700 | 5,700 |
| Meagher | 2,600 | 2,100 | 2,200 | 2,200 | 2,200 |
| Mineral | 3,000 | 3,000 | 3,700 | 3,900 | 4,100 |
| Missoula | 44,700 | 58,300 | 76,000 | 84,800 | 96,800 |
| Musselshell | 4,900 | 3,700 | 4,400 | 4,600 | 4,600 |
| Park** | 13,200 | 11,300 | 12,900 | 13,900 | 14,700 |
| Petroleum | 900 | 700 | 700 | 600 | 500 |
| Phillips | 6,000 | 5,400 | 5,400 | 5,300 | 5,200 |
| Pondera | 7,700 | 6,600 | 6,700 | 6,700 | 6,500 |
| Powder River | 2,500 | 2,900 | 2,500 | 2,600 | 2,600 |
| Powell | 7,000 | 6,700 | 7,000 | 7,200 | 7,500 |
| Prairie | 2,300 | 1,800 | 1,800 | 1,700 | 1,600 |

## TABLE I - 31
(cont.)

| County | 1960 | 1970 | 1980 | 1990* | 2000* |
|---|---|---|---|---|---|
| Ravalli | 12,300 | 14,400 | 22,500 | 25,400 | 29,200 |
| Richland | 10,500 | 9,800 | 12,200 | 13,300 | 13,400 |
| Roosevelt | 11,700 | 10,400 | 10,500 | 10,800 | 11,200 |
| Rosebud | 6,200 | 6,000 | 9,900 | 12,700 | 13,200 |
| Sanders | 6,900 | 7,100 | 8,700 | 8,900 | 9,400 |
| Sheridan | 6,500 | 5,800 | 5,400 | 5,200 | 5,000 |
| Silver Bow | 46,500 | 42,000 | 38,100 | 35,300 | 31,700 |
| Stillwater | 5,500 | 4,600 | 5,600 | 6,800 | 6,200 |
| Sweet Grass | 3,300 | 3,000 | 3,200 | 3,700 | 3,600 |
| Teton | 7,300 | 6,100 | 6,500 | 6,500 | 6,400 |
| Toole | 7,900 | 5,800 | 5,600 | 5,700 | 5,700 |
| Treasure | 1,300 | 1,100 | 1,000 | 900 | 800 |
| Valley | 17,100 | 11,500 | 10,200 | 9,900 | 9,800 |
| Wheatland | 3,000 | 2,500 | 2,400 | 2,200 | 2,100 |
| Wibaux | 1,700 | 1,500 | 1,500 | 1,500 | 1,300 |
| Yellowstone | 79,000 | 87,400 | 108,000 | 133,000 | 160,400 |
| State Total: | 674,800*** | 694,400*** | 786,700 | 859,900 | 935,600 |

* Projection.
** Includes the Montana portion of Yellowstone National Park.
*** Counties do not add to total due to rounding.

The projections presented above were produced primarily by comparing the final county population figure available from the 1980 Census with the 1980 projections produced in 1978. The original projection was then shifted upward or downward, depending on the results of the comparison. Recently announced major plant closings, military installation cut-backs, and new mines were roughly factored into the revisions in a few cases.

Constructing the 1978 county projections involved using an economic-demographic model called MASS (Montana Alternative Simulation System). The use of this model for population projection purposes rests on the principle that employment is the basis for most population migration. Briefly, projections are derived from MASS by first projecting employment for industries within a county that primarily sell products outside the county. These industries are called basic industries. Then, employment in sectors that serve the local (county) population, the so-called non-basic sectors, is projected using a changing ratio of non-basic to basic employment for that county. The two types of employment data are then added together to form total employment. The last step consists of projecting total population based on a changing ratio of population to employment applied to total employment for each county.

A completely new set of projections, produced by a detailed county-by-county analysis using an economic-demographic model like MASS, needs to be completed as soon as possible to account for all new development in Montana. The revised projections presented in this table were produced using a much cruder approach. A refined new set will be produced by funding becomes available.

SOURCE: U.S. Census of Population, 1960, 1970, and 1980; projections derived by Census and Economic Information Center, Montana Dept. of Commerce, September 1981.

TABLE I - 32

## MONTANA COUNTY POPULATION AGE 65 & OVER
## HISTORY & PROJECTIONS
## 1960 - 1990
(rounded to nearest 10 persons)

| County | 1960 | 1970 | 1980 | 1990* |
|---|---|---|---|---|
| Beaverhead | 830 | 860 | 990 | 1,000 |
| Big Horn | 740 | 690 | 900 | 1,020 |
| Blaine | 860 | 760 | 850 | 800 |
| Broadwater | 320 | 320 | 410 | 510 |
| Carbon | 1,250 | 1,230 | 1,440 | 1,380 |
| Carter | 260 | 270 | 270 | 260 |
| Cascade | 5,680 | 6,470 | 7,990 | 9,660 |
| Chouteau | 780 | 730 | 800 | 960 |
| Custer | 1,560 | 1,550 | 1,730 | 2,160 |
| Daniels | 430 | 450 | 450 | 500 |
| Dawson | 910 | 990 | 1,140 | 1,410 |
| Deer Lodge | 1,880 | 1,880 | 1,790 | 1,820 |
| Fallon | 350 | 360 | 400 | 450 |
| Fergus | 1,910 | 1,850 | 2,110 | 2,410 |
| Flathead | 3,760 | 4,120 | 5,380 | 6,570 |
| Gallatin | 2,310 | 2,620 | 3,230 | 4,110 |
| Garfield | 220 | 170 | 180 | 230 |
| Glacier | 690 | 830 | 980 | 1,170 |
| Golden Valley | 180 | 150 | 150 | 170 |
| Granite | 330 | 300 | 390 | 510 |
| Hill | 1,530 | 1,460 | 1,680 | 1,910 |
| Jefferson | 420 | 470 | 620 | 700 |
| Judith Basin | 320 | 360 | 390 | 340 |
| Lake | 1,750 | 1,950 | 2,620 | 3,280 |
| Lewis & Clark | 2,880 | 3,300 | 4,120 | 5,700 |
| Liberty | 160 | 180 | 260 | 380 |
| Lincoln | 920 | 990 | 1,420 | 1,970 |
| McCone | 330 | 290 | 280 | 430 |
| Madison | 700 | 730 | 890 | 950 |
| Meagher | 290 | 240 | 280 | 290 |
| Mineral | 220 | 230 | 330 | 400 |
| Missoula | 4,090 | 4,510 | 6,140 | 7,920 |
| Musselshell | 700 | 610 | 700 | 850 |
| Park** | 1,560 | 1,650 | 1,860 | 1,950 |
| Petroleum | 100 | 50 | 70 | 60 |
| Phillips | 800 | 720 | 730 | 750 |
| Pondera | 640 | 670 | 850 | 870 |
| Powder River | 240 | 230 | 250 | 310 |

## TABLE I - 32
(cont.)

| County | 1960 | 1970 | 1980 | 1990* |
|---|---|---|---|---|
| Powell | 690 | 660 | 790 | 890 |
| Prairie | 260 | 240 | 330 | 340 |
| Ravalli | 1,800 | 2,150 | 2,990 | 3,590 |
| Richland | 1,110 | 1,030 | 1,250 | 1,370 |
| Roosevelt | 1,100 | 990 | 1,060 | 1,210 |
| Rosebud | 640 | 610 | 590 | 830 |
| Sanders | 910 | 950 | 1,180 | 1,430 |
| Sheridan | 780 | 680 | 840 | 970 |
| Silver Bow | 5,090 | 4,980 | 5,690 | 5,670 |
| Stillwater | 660 | 680 | 890 | 1,040 |
| Sweet Grass | 500 | 490 | 610 | 630 |
| Teton | 730 | 760 | 940 | 1,020 |
| Toole | 620 | 590 | 660 | 780 |
| Treasure | 120 | 110 | 130 | 110 |
| Valley | 1,110 | 1,000 | 1,160 | 1,230 |
| Wheatland | 410 | 340 | 370 | 350 |
| Wibaux | 190 | 180 | 200 | 210 |
| Yellowstone | 5,830 | 7,060 | 9,840 | 13,230 |
| State Total*** | 65,420 | 68,740 | 84,560 | 101,060 |

* Projection.

** Includes the Montana portion of Yellowstone National Park.

*** Counties may not add to total due to rounding.

SOURCES: U.S. Census of Population 1960, 1970, and 1980; projections derived by the Census and Information Center, Montana Dept. of Commerce, September 1984.

# CHAPTER II

# VITAL STATISTICS

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## TABLE II - 1

## DEATHS PER 1,000 POPULATION
## 1960 - 80

| | 1960 | 1965 | 1970 | 1975 | 1978 | 1980 |
|---|---|---|---|---|---|---|
| United States | 9.5 | 9.4 | 9.5 | 8.9 | 8.8 | 8.8 |
| Montana | 9.7 | 9.3 | 9.5 | 8.7 | 8.3 | 8.5 |
| Idaho | 8.1 | 8.6 | 8.6 | 7.9 | 7.4 | 7.2 |
| Wyoming | 8.5 | 8.3 | 8.8 | 8.2 | 7.3 | 6.9 |

SOURCE: National Center for Health Statistics, Vital Statistics of the United States, annual; and unpublished data.

## TABLE II - 2

## MONTANA & U.S. LIFE EXPECTANCY IN YEARS
## (based on deaths 1969 - 1971)

| Group | United States | Montana |
|---|---|---|
| All Races: | | |
| Both Sexes | 70.8 | 70.6 |
| Males | 67.0 | 66.7 |
| Females | 74.6 | 75.1 |
| Whites: | | |
| Both Sexes | 71.6 | 71.0 |
| Males | 67.9 | 67.2 |
| Females | 75.5 | 75.6 |

SOURCE: Vital Records & Statistics Bureau, Montana Department of Health & Environmental Sciences, personal communication, January 1985, and National Center for Health Statistics, U.S. Dept. of Health & Human Services.

## TABLE II - 3

## MONTANA LIVE BIRTHS, DEATHS, MARRIAGES & MARITAL TERMINATIONS, 1960 - 1981

(Births & Deaths by Residence; Marriages & Marital Terminations by Occurence)

| Year | Number of Live Births | Out-of-Wedlock Births per 1,000 Live Births | Number of Deaths | Number of Infant Deaths | Number of Marriages Solemnized | Number of Marital Terminations |
|---|---|---|---|---|---|---|
| 1960 | 17,448 | 32.3 | 6,525 | 421 | 5,883 | 2,003 |
| 1970 | 12,622 | 95.1 | 6,597 | 272 | 6,919 | 3,051 |
| 1971 | 12,347 | 94.9 | 6,860 | 267 | 7,128 | 3,366 |
| 1972 | 11,444 | 110.0 | 6,896 | 225 | 7,674 | 3,609 |
| 1973 | 11,392 | 99.6 | 6,870 | 222 | 7,751 | 3,772 |
| 1974 | 12,273 | 97.9 | 6,552 | 202 | 7,741 | 3,940 |
| 1975 | 12,070 | 101.0 | 6,539 | 187 | 7,331 | 4,286 |
| 1976 | 12,605 | 102.6 | 6,733 | 209 | 7,390 | 4,850 |
| 1977 | 13,304 | 110.4 | 6,397 | 183 | 7,547 | 4,813 |
| 1978 | 13,545 | 120.3 | 6,484 | 155 | 8,136 | 4,877 |
| 1979 | 14,057 | 113.5 | 6,471 | 151 | 8,195 | 5,106 |
| 1980 | 14,208 | 125.0 | 6,664 | 176 | 8,336 | 4,940 |
| 1981 | 14,309 | 132.9 | 6,709 | 153 | 8,209 | 5,004 |

SOURCE: U.S. Bureau of the Census, 1980 Census, Computer Tape; 1970, V.1, Pt.28, Bureau of Records & Statistics, Montana Dept. of Health & Environmental Sciences, Montana Vital Statistics (annual).

## TABLE II - 4

## MONTANA DEATHS & DEATH RATES BY FOUR LEADING CAUSES*, 1971 - 1981

(Rates per 1,000 resident population as of 4/1/80 and 7/1, other yrs.)

| Year | Heart Disease |  | Cancer |  | Cardiovascular Disease (Stroke) |  | Accidents |  |
|---|---|---|---|---|---|---|---|---|
|  | Number | Rate | Number | Rate | Number | Rate | Number | Rate |
| 1971 | 2,339 | 329.4 | 1,050 | 147.9 | 796 | 112.1 | 609 | 85.8 |
| 1972 | 2,294 | 319.1 | 1,122 | 156.1 | 743 | 103.3 | 635 | 88.3 |
| 1973 | 2,300 | 319.0 | 1,061 | 147.2 | 711 | 98.6 | 611 | 84.7 |
| 1974 | 2,202 | 299.6 | 1,130 | 153.7 | 670 | 91.2 | 559 | 76.1 |
| 1975 | 2,178 | 291.2 | 1,105 | 147.7 | 660 | 88.2 | 584 | 78.1 |
| 1976 | 2,178 | 289.2 | 1,191 | 158.2 | 637 | 84.6 | 579 | 76.9 |
| 1977 | 2,149 | 282.4 | 1,184 | 155.6 | 576 | 75.7 | 574 | 75.4 |
| 1978 | 2,169 | 276.3 | 1,233 | 157.1 | 559 | 71.2 | 558 | 71.1 |
| 1979 | 2,302 | 292.9 | 1,240 | 157.8 | 588 | 74.8 | 596 | 75.8 |
| 1980 | 2,332 | 296.4 | 1,291 | 164.1 | 557 | 70.8 | 570 | 72.5 |
| 1981 | 2,279 | 237.4 | 1,343 | 169.4 | 549 | 69.2 | 553 | 69.7 |

* Four leading causes shown represent experience of entire state; an individual county may have other causes of death which should appear among the top four.

SOURCE: Bureau of Records & Statistics, Montana Dept. of Health & Environmental Sciences, Montana Vital Statistics (annual).

## TABLE II - 5

## MONTANA MARITAL STATUS, PERSONS 15 YRS OLD & OVER BY SEX, BY AGE: 1980

| Group | Age 15+ | 15-24 Yrs | 25-34 Yrs | 35-59 Yrs | 60 Yrs & Over |
|---|---|---|---|---|---|
| Male: | | | | | |
| Total Persons | 296,779 | 75,765 | 67,580 | 99,437 | 53,997 |
| Never Married | 86,402 | 61,829 | 14,726 | 5,808 | 4,039 |
| Married, Except Separated | 183,696 | 12,524 | 46,390 | 83,712 | 41,070 |
| Separated | 2,511 | 320 | 758 | 955 | 478 |
| Widowed | 6,583 | 32 | 113 | 983 | 5,455 |
| Divorced | 17,587 | 1,060 | 5,593 | 7,979 | 2,955 |
| Female: | | | | | |
| Total Persons | 302,679 | 72,875 | 65,345 | 99,216 | 65,243 |
| Never Married | 61,506 | 48,964 | 7,473 | 2,642 | 2,427 |
| Married, Except Separated | 183,367 | 20,942 | 50,021 | 81,151 | 31,253 |
| Separated | 3,091 | 612 | 939 | 1,176 | 364 |
| Widowed | 33,921 | 133 | 460 | 5,126 | 28,202 |
| Divorced | 20,794 | 2,224 | 6,452 | 9,121 | 2,997 |

SOURCE: U.S. Bureau of the Census, 1980 Census, Computer Tape

# CHAPTER III

# EMPLOYMENT

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## TABLE III - 1

## MONTANA CIVILIAN LABOR FORCE
## STATE SUMMARY, 1970 & 1980

| Persons 16 Yrs. & Over | Employed 1970 | Employed 1980 | Unemployed 1970 | Unemployed 1980 |
|---|---|---|---|---|
| Total Labor Force | 266,395 | 362,656 | | |
| Civilian Labor Force (CLF) | 260,649 | 357,846 | | |
| Total Employed CLF | 244,608 | 328,316 | 16,041 | 29,530 |
| Employed Civilian Labor Force: | | | | |
| White: | | | | |
| Total | 238,669 | 315,678 | 14,805 | 26,635 |
| 16-24 Yrs | 43,159 | 67,373 | 6,496 | 10,308 |
| 25-54 Yrs | 147,847 | 200,760 | 6,454 | 13,932 |
| 55 & Over | 47,663 | 47,545 | 1,855 | 2,395 |
| Black: | | | | |
| Total | 443 | 461 | 24 | 59 |
| 16-24 Yrs | 208 | 99 | 8 | 9 |
| 25-54 Yrs | 181 | 316 | 16 | 44 |
| 55 & Over | 54 | 46 | 0 | 6 |
| Native American: | | | | |
| Total | (NA) | 9,997 | (NA) | 2,541 |
| 16-24 Yrs | | 2,516 | | 1,131 |
| 25-54 Yrs | | 6,435 | | 1,313 |
| 55 & Over | | 1,046 | | 97 |
| Asian & Pacific Islander: | | | | |
| Total | (NA) | 974 | (NA) | 1,541 |
| 16-24 Yrs | | 254 | | 1,131 |
| 25-54 Yrs | | 599 | | 1,313 |
| 55 & Over | | 121 | | 0 |
| Other Races: | | | | |
| Total | (NA) | 1,206 | (NA) | 183 |
| 16-24 Yrs | | 348 | | 73 |
| 25-54 Yrs | | 720 | | 93 |
| 55 & Over | | 138 | | 17 |

## TABLE III - 1
(cont.)

| Persons 16 Yrs. & Over | Employed | | Unemployed | |
|---|---|---|---|---|
| | 1970 | 1980 | 1970 | 1980 |
| Spanish Origin:* | | | | |
| Total | 2,252 | 3,367 | 129 | 436 |
| 16-24 Yrs | 486 | 980 | 60 | 215 |
| 25-54 Yrs | 1,517 | 2,054 | 61 | 199 |
| 55 & Over | 249 | 333 | 8 | 22 |
| Total Female Labor Force | 91,669 | 145,076 | | |
| Female Civilian Labor Force | 91,578 | 144,703 | | |
| Total Employed Female CLF | 85,337 | 134,784 | 6,241 | 9,919 |
| Employed Female Civilian Labor Force | | | | |
| White: | | | | |
| Total | 83,209 | 128,896 | 5,814 | 8,893 |
| 16-24 Yrs | 18,456 | 31,722 | 2,921 | 3,896 |
| 25-54 Yrs | 48,898 | 79,952 | 2,429 | 4,315 |
| 55 & Over | 15,855 | 17,222 | 464 | 682 |
| Black: | | | | |
| Total | 149 | 188 | 18 | 22 |
| 16-24 Yrs | 35 | 47 | 8 | 9 |
| 25-54 Yrs | 94 | 123 | 10 | 7 |
| 55 & Over | 20 | 18 | 0 | 6 |
| Native American: | | | | |
| Total | (NA) | 4,685 | (NA) | 888 |
| 16-24 Yrs | | 1,227 | | 468 |
| 25-54 Yrs | | 3,028 | | 404 |
| 55 & Over | | 430 | | 16 |
| Asian & Pacific Islander: | | | | |
| Total | (NA) | 456 | (NA) | 53 |
| 16-24 Yrs | | 96 | | 15 |
| 25-54 Yrs | | 320 | | 38 |
| 55 & Over | | 40 | | 0 |

TABLE III - 1
(cont.)

| Persons 16 Yrs. & Over | Employed 1970 | Employed 1980 | Unemployed 1970 | Unemployed 1980 |
|---|---|---|---|---|
| Other Races: | | | | |
| Total | (NA) | 559 | (NA) | 63 |
| 16-24 Yrs | | 203 | | 32 |
| 25-54 Yrs | | 297 | | 31 |
| 55 & Over | | 59 | | 0 |
| Spanish Origin:* | | | | |
| Total | 705 | 1,508 | 75 | 141 |
| 16-24 Yrs | 195 | 475 | 27 | 89 |
| 25-54 Yrs | 478 | 901 | 48 | 52 |
| 55 & Over | 32 | 132 | 0 | 0 |

* NOTE: Persons of Spanish origin may be of any race. Unemployment: The U.S. Department of Labor defines unemployment in the following way: "Unemployed persons comprise all civilians who had no employment during the reference week, who made specific efforts to find a job within the previous four weeks (such as applying directly to an employer, or to a public employment service, or checking with friends) and who were available for work during that week. Persons on layoff from a job or waiting to report to a new job within 30 days are also classified as unemployed." (U.S. Bureau of the Census, Statistical Abstract of the United States, 1984, pp. 401-402.) Thus persons who have given up looking for a job, "discouraged workers," because they believe they will not succeed in finding employment are not counted as unemployed, and are also not counted as being in the labor force.

SOURCE: U.S. Bureau of the Census, 1970 Census, Characteristics of the Population, Montana and 1980 Census, Summary Tape File 4B.

## TABLE III - 2

## MONTANA LABOR FORCE STATUS, PERSONS 16 YRS & OVER 1970 AND 1980

| Group | 1970 | 1980 |
|---|---|---|
| Total Persons 16 Yrs & Over | 470,772 | 585,375 |
| Total Labor Force | 266,395 | 362,656 |
| Civilian Labor Force: | | |
| Number Employed | 244,608 | 328,316 |
| Number Unemployed | 16,041 | 29,530 |
| Percent Unemployed | 6.2 | 8.3 |
| Total Females 16 Yrs & Over | 237,723 | 296,136 |
| Female Labor Force | 91,669 | 145,076 |
| Female Civilian Labor Force: | | |
| Number Employed | 85,337 | 134,784 |
| Number Unemployed | 6,241 | 9,919 |
| Percent Unemployed | 6.8 | 6.9 |

SOURCE: U.S. Bureau of the Census, Census of Population: 1970 & 1980, Computer Tapes.

## TABLE III - 3

## *DISABILITY STATUS, NONINSTITUTIONAL PERSONS 16-64 YRS, MONTANA

| Group | 1980 |
|---|---|
| Total Persons | 497,946 |
| Total Persons in Labor Force | 19,022 |
| Total Persons with Work Disability Not in Labor Force: | |
| Prevented from Working | 16,115 |
| Not Prevented from Working | 5,378 |
| Total Persons with No Work Disability | 457,431 |
| Total Persons with Public Transportation Disability | 5,080 |
| Total Persons with No Public Transportation Disability | 492,866 |

* a serious "health" condition that has lasted 6 months or more

SOURCE: U.S. Bureau of the Census, Census of Population: 1980, Computer Tape.

## TABLE III - 4

## UNEMPLOYMENT IN MONTANA: 1930 - 1980
(Percent of Labor Force)

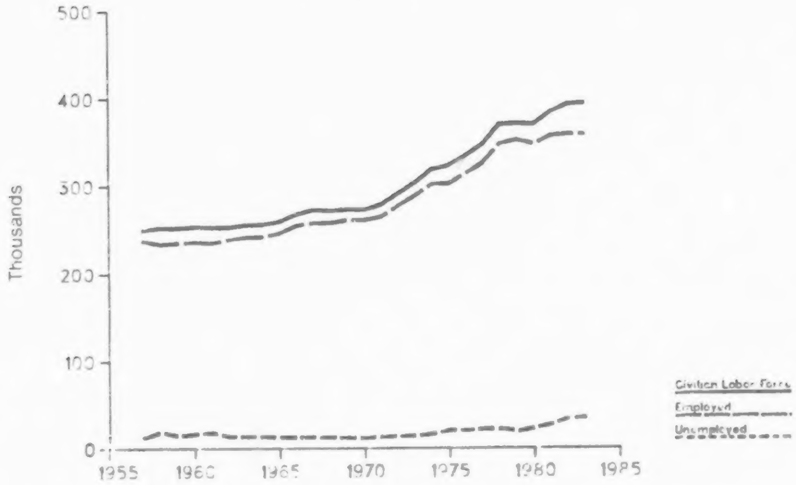
| Year | Percent |
|---|---|
| 1930 | 7.4 |
| 1933 | 21.8 |
| 1940 | 17.6 |
| 1950 | 5.1 |
| 1960 | 6.7 |
| 1970 | 4.3 |
| 1980 | 6.1 |

NOTE: There was no official unemployment data compiled for Montana during the 1930's. The 1933 unemployment rate of 21.8 percent above was estimated by the Montana Dept. of Labor and Industry. All of the other unemployment rates come from the U.S. Bureau of the Census.

SOURCE: Research & Analysis Bureau, Montana Dept. of Labor & Industry, December 7, 1983 and U.S. Bureau of the Census, Census of Population, Montana, years indicated.

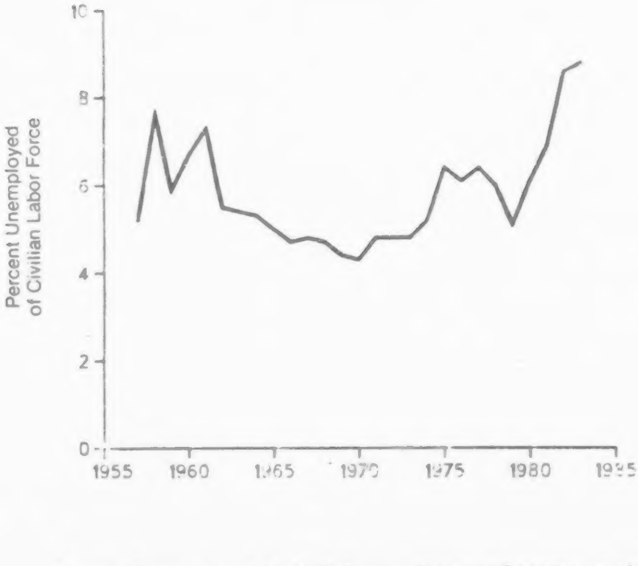
## FIGURE III-1

Montana
Civilian Labor Force
1957-1983



## FIGURE III-2

Unemployment Rate
1957-1983



*Source: Research and Analysis Bureau, Montana Department of Labor and Industry.*

## TABLE III - 5

## MONTANA CIVILIAN LABOR FORCE (CLF) & UNEMPLOYMENT
1957 - 1983
(in thousands)

| Year | CLF | Unemployment | Percent Unemployed |
|---|---|---|---|
| 1957 | 250.2 | 13.0 | 5.2 |
| 1958 | 252.5 | 19.3 | 7.6 |
| 1959 | 252.4 | 14.9 | 5.9 |
| 1960 | 253.9 | 17.0 | 6.7 |
| 1961 | 252.9 | 18.4 | 7.3 |
| 1962 | 253.2 | 13.9 | 5.5 |
| 1963 | 255.9 | 13.8 | 5.4 |
| 1964 | 256.4 | 13.7 | 5.3 |
| 1965 | 259.7 | 13.0 | 5.0 |
| 1966 | 267.9 | 12.7 | 4.7 |
| 1967 | 272.9 | 13.0 | 4.8 |
| 1968 | 271.9 | 12.8 | 4.7 |
| 1969 | 273.5 | 12.1 | 4.4 |
| 1970 | 273.0 | 11.8 | 4.3 |
| 1971 | 278.5 | 13.5 | 4.8 |
| 1972 | 291.2 | 13.9 | 4.8 |
| 1973 | 303.2 | 14.6 | 4.8 |
| 1974 | 318.6 | 16.7 | 5.2 |
| 1975 | 322.6 | 20.6 | 6.4 |
| 1976 | 334.0 | 20.0 | 6.1 |
| 1977 | 347.0 | 22.0 | 6.4 |
| 1978 | 370.0 | 22.0 | 6.0 |
| 1979 | 371.0 | 19.0 | 5.1 |
| 1980 | 370.0 | 23.0 | 6.1 |
| 1981 | 384.0 | 27.0 | 6.9 |
| 1982 | 393.0 | 34.0 | 8.6 |
| 1983 | 394.0 | 35.0 | 8.8 |

SOURCE: Research & Analysis Bureau, Montana Dept. of Labor & Industry

## TABLE III - 6

## MONTANA HOUSEHOLDER LABOR FORCE PARTICIPATION & UNEMPLOYMENT RATES, 1980

| Type of Householder | Labor Force Participation | | Unemployment Rate | |
|---|---|---|---|---|
| | Total | Indian | Total | Indian |
| Family households | 79.5% | 70.5% | 6.2% | 15.1% |
| Married couple households | | | | |
| with female head | 51.7% | 54.1% | 4.7% | 12.0% |
| with male head | 81.8% | 77.4% | 6.2% | 15.7% |
| Female householder | 66.0% | 57.2% | 8.1% | 16.2% |
| without children under 18 | 49.3% | 44.5% | 5.3% | 15.2% |
| with children age 6-17 | 80.5% | 70.5% | 6.5% | 13.0% |
| with children under 6 | 64.4% | 53.4% | 14.9% | 21.9% |
| Male householder, no wife present | 78.6% | 71.8% | 8.7% | 7.1% |

SOURCE: U.S. Bureau of the Census, 1980 Census, General Social and Economic Characteristics, Montana, 1983.

## TABLE III - 7

## AVERAGE UNEMPLOYMENT RATES, 1976-82

| | United States | Montana | Idaho | Wyoming |
|---|---|---|---|---|
| 1976 | 7.7 | 6.1 | 5.7 | 4.1 |
| 1977 | 7.0 | 6.4 | 5.9 | 3.6 |
| 1978 | 6.0 | 6.0 | 5.7 | 3.3 |
| 1979 | 5.8 | 5.1 | 5.7 | 2.8 |
| 1980 | 7.1 | 6.0 | 7.9 | 3.9 |
| 1981 | 7.6 | 6.9 | 7.6 | 4.1 |
| 1982 | 9.7 | 8.6 | 9.8 | 5.8 |
| 1983 | 9.6 | 8.8 | 9.8 | 8.4 |

SOURCE: U.S. Bureau of Labor Statistics, "Local Area Unemployment Statistics," unpublished, and U.S. Bureau of the Census, Statistical Abstract of U.S., 1984, p. 391.

## TABLE III - 8

## MONTANA CIVILIAN LABOR FORCE (CLF) STATUS BY TYPE OF HOUSEHOLDER & RACE, 1980

| Group | Total | White | Indian |
|---|---|---|---|
| Family Householders | 207,510 | 198,325 | 7,575 |
| Female Householders | 19,952 | 17,649 | 2,097 |
| CLF | 13,133 | 11,828 | 1,192 |
| with own children, less than 18 yrs | 9,764 | 8,771 | 915 |
| with own children, less than 6 yrs | 2,999 | 2,616 | 360 |
| Employed | 12,069 | 10,964 | 999 |
| Unemployed | 1,064 | 864 | 193 |
| Male Householders, no wife present | 6,201 | 5,632 | 507 |
| CLF | 4,864 | 4,442 | 364 |
| Employed | 4,440 | 4,055 | 338 |
| Unemployed | 424 | 387 | 26 |
| Non-Family Households | 77,497 | 75,212 | 1,645 |
| Male Householders | 35,602 | 34,302 | 916 |
| CLF | 25,664 | 24,787 | 639 |
| Employed | 22,836 | 22,118 | 509 |
| Unemployed | 2,828 | 2,669 | 130 |
| Female Householders | 41,895 | 40,910 | 292 |
| CLF | 19,174 | 18,744 | 290 |
| Employed | 18,308 | 17,916 | 276 |
| Unemployed | 866 | 828 | 14 |
| Married Couple Householders | 181,357 | 176,622 | 4,971 |
| Male Householders | 176,448 | 170,467 | 4,679 |
| CLF | 141,824 | 137,301 | 3,605 |
| Employed | 133,071 | 129,197 | 3,039 |
| Unemployed | 8,753 | 8,104 | 566 |
| Female Householders | 4,909 | 4,577 | 292 |
| CLF | 2,530 | 2,362 | 158 |
| Employed | 2,411 | 2,262 | 139 |
| Unemployed | 119 | 100 | 19 |

Householder: - The person or one of the persons in whose name the home was owned or rented. A family householder is a householder living with one or more persons related to him or her by birth, marriage, or adoption.

SOURCE: U.S. Bureau of the Census, 1980 Census, Detailed Population Characteristics, Montana.

TABLE III - 9

## MONTANA CIVILIAN LABOR FORCE (CLF) STATUS BY FAMILY TYPE & RACE, 1970

| Group | Total | White | Black | Spanish Language |
|---|---|---|---|---|
| All Family Heads | 171,812 | 166,588 | 337 | 1,632 |
| Female Head | 13,791 | 12,673 | 23 | 99 |
| CLF | 7,744 | 7,343 | 13 | 46 |
| Employed | 7,276 | 6,948 | 13 | 46 |
| Unemployed | 468 | 395 | 0 | 0 |
| w/related chldrn under 18 yrs | 9,283 | 8,360 | 21 | 83 |
| w/related chldrn under 6 yrs | 3,542 | 3,032 | 4 | 39 |
| Male Head | 158,021 | 153,915 | 314 | 1,533 |
| Under 65 yrs | 136,921 | 133,237 | 294 | 1,436 |
| CLF | 124,765 | 121,927 | 101 | 1,223 |
| Employed | 120,122 | 117,710 | 95 | 1,187 |
| Unemployed | 4,643 | 4,217 | 6 | 36 |
| Married, wife present | 132,780 | 129,266 | 294 | 1,422 |
| CLF | 121,185 | 118,451 | 101 | 1,209 |
| Employed | 116,700 | 114,373 | 95 | 1,173 |
| Unemployed | 4,485 | 4,078 | 6 | 36 |
| Wife in paid labor force | 48,117 | 46,936 | 106 | 441 |
| CLF | 43,988 | 43,004 | 49 | 387 |
| Employed | 42,523 | 41,652 | 43 | 380 |
| Unemployed | 1,465 | 1,352 | 6 | 7 |
| w/related chldrn under 6 yrs | 10,496 | 9,936 | 50 | 161 |

Spanish Language: Those persons who in 1970 reported Spanish as their mother tongue, as well as persons in families in which the household head or spouse reported Spanish as his or her mother tongue.

SOURCE: U.S. Bureau of the Census, 1970 Census, Detailed Population Characteristics.

## TABLE III - 10

## MONTANA: REASON NOT IN LABOR FORCE, 1983
(thousands)

| Group | Total Not in Labor Force | REASON NOT IN LABOR FORCE: Keeping House | Attending School | Unable to Work | Other |
|---|---|---|---|---|---|
| Both Sexes: | | | | | |
| 16-24 Yrs | 39.7 | 10.7 | 22.9 | 0.0 | 6.1 |
| 25-54 Yrs | 61.4 | 46.3 | 2.5 | 1.4 | 11.2 |
| 55-65 Yrs | 28.4 | 15.6 | 0.0 | 1.6 | 11.2 |
| 65 Yrs & Over | 71.1 | 30.0 | 0.1 | 1.2 | 39.8 |
| Females: | | | | | |
| 16-24 Yrs | 25.9 | 10.7 | 11.7 | 0.0 | 3.6 |
| 25-54 Yrs | 52.4 | 46.2 | 1.2 | 0.2 | 4.8 |
| 55-65 Yrs | 19.6 | 15.4 | 0.0 | 0.4 | 3.8 |
| 65 Yrs & Over | 41.3 | 29.8 | 0.0 | 0.4 | 11.1 |
| MARITAL STATUS: | | | | | |
| Both Sexes: | | | | | |
| Married, Spouse Present | 126.7 | 79.7 | 2.2 | 2.7 | 42.2 |
| Single, Never Married | 35.1 | 2.9 | 22.5 | 0.2 | 9.5 |
| *Other Marital Status | 39.0 | 20.1 | 0.8 | 1.2 | 16.8 |
| Head w/Other Relatives | 42.9 | 5.4 | 1.3 | 2.4 | 33.8 |
| Females: | | | | | |
| Married, Spouse Present | 91.4 | 79.4 | 0.9 | 0.5 | 10.5 |
| Single, Never Married | 17.7 | 2.9 | 11.3 | 0.1 | 3.5 |
| *Other Marital Status | 30.2 | 19.9 | 0.6 | 0.4 | 9.3 |
| Head w/Other Relatives | 6.9 | 5.0 | 0.3 | 0.1 | 1.5 |

* Includes divorced, widowed, separated, and married with spouse absent.

SOURCE: U.S. Bureau of Labor Statistics, Current Population Survey, household data, annual averages, 1983.

## TABLE III - 11

## MONTANA FULL- OR PART-TIME STATUS OF CIVILIAN LABOR FORCE BY REASON FOR PART-TIME, 1983

(thousands)

| Group | Full-Time Labor Force Total | Usually Work Part Time | | | | |
|---|---|---|---|---|---|---|
| | | Total | Slack Work or Only Find PT | Does Not Want FT* | Full-Time Work, Under 35 hrs | Other |
| Males: | | | | | | |
| 16 Yrs & Over | 213.4 | 21.9 | 7.0 | 12.0 | 0.8 | 2.1 |
| 16-19 Yrs | 7.2 | 7.5 | 1.8 | 5.4 | 0.0 | 0.2 |
| 20 Yrs & Over | 206.2 | 14.4 | 5.2 | 6.6 | 0.8 | 1.8 |
| Females: | | | | | | |
| 16 Yrs & Over | 117.6 | 49.6 | 11.6 | 31.9 | 2.3 | 3.7 |
| 16-19 Yrs | 7.0 | 7.0 | 1.9 | 4.7 | 0.2 | 0.1 |
| 20 Yrs & Over | 110.6 | 42.6 | 9.6 | 27.2 | 2.1 | 3.6 |

* Does not want, or unavailable for, full-time work.

SOURCE: U.S. Bureau of Labor Statistics, Current Population Survey, household data, annual averages, 1983.

## TABLE III - 12

## MONTANA UNEMPLOYED PERSONS BY DURATION OF EMPLOYMENT, 1983
(thousands)

| | Total Number Unemployed | NUMBER UNEMPLOYED BY NUMBER OF WEEKS | | | | | Average Duration in Wks. |
|---|---|---|---|---|---|---|---|
| | | 0-4 | 5-14 | 15-26 | 27-51 | 52+ | |
| Both Sexes: | | | | | | | |
| 16 Yrs & Over | 34.9 | 12.5 | 11.8 | 5.4 | 2.2 | 2.9 | 14.0 |
| 16-19 Yrs | 4.0 | 2.1 | 1.2 | 0.5 | 0.1 | 0.2 | 6.5 |
| 20 Yrs & Over | 30.8 | 10.4 | 10.6 | 5.0 | 2.1 | 2.7 | 15.0 |
| Males: | | | | | | | |
| 16 Yrs & Over | 21.1 | 7.4 | 7.0 | 3.1 | 1.4 | 2.1 | 15.5 |
| 16-19 Yrs | 1.9 | 0.9 | 0.5 | 0.3 | 0.1 | 0.1 | 8.5 |
| 20 Yrs & Over | 19.2 | 6.5 | 6.5 | 2.9 | 1.3 | 2.0 | 16.2 |
| Females: | | | | | | | |
| 16 Yrs & Over | 13.8 | 5.2 | 4.8 | 2.3 | 0.8 | 0.7 | 11.7 |
| 16-19 Yrs | 2.1 | 1.2 | 0.7 | 0.2 | 0.0 | 0.0 | 4.7 |
| 20 Yrs & Over | 11.7 | 4.0 | 4.1 | 2.1 | 0.8 | 0.7 | 13.0 |

SOURCE: U.S. Bureau of Labor Statistics, Current Population Survey, household data, annual averages, 1983.

## TABLE III - 13

## LABOR UNION MEMBERSHIP
(thousands)

| | 1972 | 1978 | 1980 | % of Non-Agricultural Employment | |
|---|---|---|---|---|---|
| | | | | 1972 | 1980 |
| United States | 19,780 | 20,459 | 22,811 | 26.9 | 25.2 |
| Montana | 65 | 67 | 82 | 30.2 | 29.2 |
| Idaho | 39 | 47 | 61 | 16.5 | 18.4 |
| Wyoming | 22 | 28 | 39 | 18.8 | 18.9 |

SOURCE: U.S. Bureau of the Census, *State & Metropolitan Area Data Book, 1982*, p. 502.

## TABLE III - 14

## OCCUPATIONAL MAKE-UP OF EMPLOYED PERSONS, 1980

| Group | U.S. |  | Montana |  | Idaho |  | Wyoming |  |
|---|---|---|---|---|---|---|---|---|
|  | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Employed Persons over 16 | 97,631,061 | 100.0 | 329,446 | 100.0 | 380,091 | 100.0 | 215,486 | 100.0 |
| Managerial & Professional Specialty Occupations: | 22,320,683 | 22.9 | 76,010 | 22.1 | 83,379 | 21.9 | 46,865 | 21.8 |
| Executive, Administrative, & Managerial | 10,196,035 |  | 34,423 |  | 40,598 |  | 21,647 |  |
| Professional Specialty | 12,124,650 |  | 41,587 |  | 42,781 |  | 25,218 |  |
| Technical, Sales, & Admin. Support Occupations: | 29,464,636 | 30.2 | 92,291 | 28.0 | 101,622 | 26.7 | 53,158 | 24.7 |
| Technicians & Related Support | 3,013,725 |  | 7,898 |  | 11,662 |  | 5,865 |  |
| Sales | 9,727,163 |  | 33,950 |  | 36,517 |  | 17,902 |  |
| Administrative Support, Including Clerical | 16,723,748 |  | 50,443 |  | 53,443 |  | 29,391 |  |
| Service Occupations: | 12,680,181 | 13.0 | 47,778 | 14.5 | 48,483 | 12.8 | 26,915 | 12.5 |
| Private Household | 563,644 |  | 1,394 |  | 1,729 |  | 710 |  |
| Protective Service | 1,473,088 |  | 3,845 |  | 5,146 |  | 2,666 |  |
| Service, Except Protective & Household | 10,643,399 |  | 42,539 |  | 41,608 |  | 23,539 |  |
| Farming, Forestry & Fishing | 2,758,089 | 2.8 | 27,557 | 8.4 | 37,431 | 9.9 | 10,706 | 5.0 |
| Precision Production, Craft & Repair | 12,515,360 | 12.8 | 40,385 | 12.3 | 48,304 | 12.7 | 41,882 | 19.4 |
| Operators, Fabricators & Laborers: | 17,892,160 | 18.3 | 45,425 | 13.8 | 60,872 | 16.0 | 36,020 | 16.7 |
| Machine Operators, Assemblers, & Inspectors | 9,120,394 |  | 12,543 |  | 23,270 |  | 8,681 |  |
| Transportation & Material Moving | 4,359,494 |  | 17,251 |  | 19,767 |  | 16,794 |  |
| Handlers, Equipment Cleaners, Helpers, & Laborers | 4,412,272 |  | 15,631 |  | 17,835 |  | 10,545 |  |

SOURCE: U.S. Bureau of the Census, 1980 Provisional Estimates of Social, Economic, and Housing Characteristics, pp. 24-30.

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## TABLE III - 15

## MONTANA DISTRIBUTION OF EMPLOYMENT BY OCCUPATION, BY SEX: 1982 & 1983

(Persons age 16 & over)

| Group | 1982 |  | 1983 |  |
|---|---|---|---|---|
|  | Men | Women | Men | Women |
| Total Employment | 211,000 | 147,000 | 210,000 | 149,000 |
| Percent | 100.0% | 100.0% | 100.0% | 100.0% |
| White Collar Workers: |  |  |  |  |
| Total | 39,5% | 67.1% | 37.6% | 65.7% |
| Professional & Technical | 13.5% | 16.3% | 12.1% | 16.6% |
| Managers & Administrators, except Farm* | 14.5% | 8.7% | 10.7% | 8.1% |
| Sales Workers | 6.9% | 6.4% | 11.8% | 13.1% |
| Clerical Workers | 4.5% | 35.7% | 3.0% | 27.9% |
| Blue Collar Workers: |  |  |  |  |
| Total | 41.0% | 6.4% | 39.5% | 5.8% |
| Craft & Kindred Workers | 20.8% | 1.6% | 20.9% | 1.0% |
| Operatives, except Transport | 8.2% | 2.4% | 3.5% | 2.8% |
| Transport Equipment Operatives | 5.8% | 0.6% | 9.5% | 0.5% |
| Non-Farm Laborers | 6.3% | 1.8% | 5.6% | 1.5% |
| Service Workers | 7.0% | 22.6% | 8.2% | 23.6% |
| Farm Workers | 12.6% | 3.9% | 14.8% | 5.0% |

* NOTE: The large increase in the percentage of sales workers is the result of a Bureau of Labor Statistics (BSL) definitional change.

SOURCE: U.S. Bureau of Labor Statistics, Current Population Survey, household data, annual averages, 1982 & 1983.

TABLE III - 16

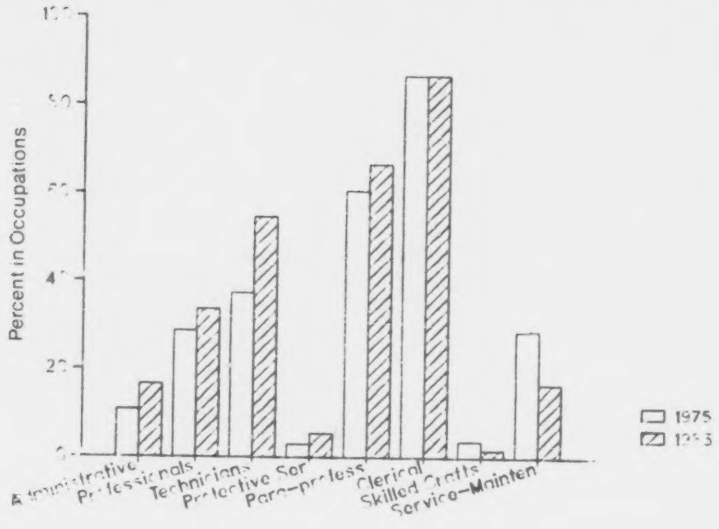
# MONTANA EMPLOYED PERSONS BY DETAILED OCCUPATION & PERCENTAGE OF WOMEN IN EACH, 1980

| Group | Number in Each Occup. | Percent Female |
|---|---|---|
| Total, All Occupations | 328,316 | 41.1 |
| Executive, Administrative & Managerial: | 33,789 | 30.6 |
| Officials & Administrators, Public Admin. | 1,734 | 35.9 |
| Officials & Administrators, Other | 24,585 | 27.9 |
| Manufacturing | 1,867 | 10.3 |
| Retail Trade, self-employed | 1,258 | 42.2 |
| Retail Trade, except self-employed | 4,584 | 33.1 |
| Other Industries | 16,876 | 27.4 |
| Management-Related Occupations | 7,470 | 38.3 |
| Professional Specialty Occupations: | 40,381 | 49.1 |
| Engineers & Natural Scientists | 5,352 | 8.8 |
| Architects | 359 | 6.4 |
| Engineers | 2,452 | 4.9 |
| Surveyors | 334 | 9.9 |
| Computer, Math & Natural Scientists | 2,207 | 13.4 |
| Physicians, Dentists & Kindred | 2,211 | 7.3 |
| Registered Nurses, Therapists & Kindred | 5,385 | 88.6 |
| Elementary & Secondary School Teachers | 14,058 | 64.6 |
| Other Teachers, Librarians & Counselors | 4,686 | 48.7 |
| Social Scientists & Urban Planners | 527 | 28.5 |
| Social, Recreation & Religious Workers | 3,022 | 36.1 |
| Lawyers & Judges | 1,659 | 17.2 |
| Writers, Artists, Entertainers, Athletes | 3,481 | 43.6 |
| Technicians & Related Support: | 7,990 | 49.7 |
| Health Technologists & Technicians | 1,578 | 80.5 |
| Licensed Practical Nurses | 1,380 | 97.0 |
| Engineering, Science & Other Technicians | 5,032 | 27.0 |
| Sales Occupations: | 33,677 | 47.0 |
| Supervisors, self-employed | 1,924 | 33.1 |
| Supervisors, except self-employed | 3,879 | 26.9 |
| Sales Representatives | 9,333 | 22.0 |
| Finance & Business Services | 6,064 | 29.4 |
| Commodities | 3,269 | 8.4 |
| Sales Workers, Retail Trade | 11,722 | 60.7 |
| Sales Workers, except Retail | 1,373 | 37.4 |
| Cashiers | 5,324 | 82.8 |
| Sales-Related Occupations | 122 | 36.1 |

SOURCE: U.S. Employment & Training Administration, 1980 Census.

## FIGURE III-3

Montana
State Government Employment of Women
1975 and 1983



*Source: Employee Relations Bureau, Personnel Division, Montana Department of Administration.*

TABLE III - 17

## MONTANA STATE GOVERNMENT EMPLOYMENT OF WOMEN BY CATEGORY

| | 1975* | | 1982 | | 1983 | |
|---|---|---|---|---|---|---|
| | Number | Percent | Number | Percent | Number | Percent |
| Administrators | 76 | 10.9 | 84 | 13.2 | 119 | 16.6 |
| Professionals | 627 | 28.8 | 832 | 32.4 | 958 | 33.7 |
| Technicians | 458 | 37.4 | 859 | 52.7 | 977 | 54.6 |
| Protective Services | 16 | 3.0 | 24 | 5.3 | 28 | 5.4 |
| Paraprofessionals | 817 | 60.8 | 514 | 67.4 | 593 | 66.6 |
| Clerical | 1,948 | 86.7 | 1,485 | 85.9 | 1,447 | 86.8 |
| Skilled Crafts | 30 | 3.7 | 5 | 1.3 | 7 | 1.7 |
| Service/Maintenance | 280 | 28.8 | 150 | 18.4 | 126 | 16.6 |

* Starting date of Montana Equal Employment Opportunity (EEO) Program

SOURCE: Personnel Division, Montana Dept. of Administration, "Annual Report to the Governor on the Montana E.E.O. and Affirmative Action Program for the period ending June 30, 1983."

## TABLE III - 18

### COMPARISON OF EMPLOYMENT BY SECTOR: MONTANA & THE UNITED STATES, 1983

| Sector | Montana Percent of Total | U.S. Percent of Total |
|---|---|---|
| Agriculture* | 9 | 3 |
| Mining | 2 | 1 |
| Construction | 3 | 4 |
| Manufacturing | 6 | 16 |
| Transportation & Utilities | 5 | 4 |
| Wholesale Trade | 4 | 5 |
| Retail Trade | 15 | 14 |
| Finance, Insurance & Real Estate | 4 | 5 |
| Private Services | 16 | 19 |
| Public Services (Gov't) | 19 | 17 |
| Non-Farm Self-Employed | 16 | 12 |

* includes self-employed farm workers

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished data, August 1984; percentages derived.

## TABLE III - 19

### STATE & LOCAL GOVERNMENT EMPLOYMENT 1970 & 1980 (thousands)

|  |  |  |  | Percent Change |  |
|---|---|---|---|---|---|
|  | 1970 | 1980 | 1983 | 1970-80 | 1980-83 |
| United States | 10,192,000 | 13,281,000 | 13,101,000 | 30.3 | -1.4 |
| Montana | 39,195 | 52,837 | 52,109 | 34.8 | -1.4 |
| Idaho | 40,250 | 57,303 | 56,753 | 42.4 | -1.0 |
| Wyoming | 25,600 | 36,156 | 42,972 | 41.2 | +18.9 |

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished data, 1985.

## TABLE III - 20

## PUBLIC SECTOR EMPLOYMENT IN MONTANA: 1978 - 1983
(thousands)

| Public Sector | 1978 | | 1979 | | 1980 | | 1981 | | 1982 | | 1983 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Federal Government | 13.6 | 19.0 | 13.9 | 19.8 | 13.8 | 19.6 | 13.6 | 19.6 | 12.9 | 19.2 | 12.5 | 18.3 |
| State Colleges & Universities | 8.6 | 12.0 | 7.9 | 11.3 | 8.2 | 11.7 | 7.8 | 11.3 | 8.1 | 12.1 | 8.2 | 12.0 |
| Other State Government | 11.1 | 15.4 | 10.8 | 15.4 | 10.8 | 15.4 | 10.4 | 15.0 | 10.0 | 14.9 | 10.4 | 15.2 |
| Local Education | 23.8 | 33.2 | 22.8 | 32.5 | 23.1 | 32.9 | 22.5 | 32.5 | 21.5 | 32.0 | 22.1 | 32.4 |
| Other Local Government | 14.6 | 20.4 | 14.7 | 21.0 | 14.3 | 20.4 | 15.0 | 21.6 | 14.6 | 21.8 | 15.0 | 22.0 |
| Total Government | 71.1 | 100.0 | 70.1 | 100.0 | 70.2 | 100.0 | 69.3 | 100.0 | 67.1 | 100.0 | 68.2 | 100.0 |
| Civilian Labor Force (CLF) | 370.0 | | 371.0 | | 370.0 | | 384.0 | | 392.0 | | 394.0 | |
| Public Sector as % of CLF | | 19.4 | | 18.9 | | 19.0 | | 18.0 | | 17.1 | | 17.3 |

NOTE: The data here are from a different series than the preceding and following tables and are not compatible.

SOURCE: Research and Analysis Bureau, Montana Dept. of Labor & Industry, unpublished data. Compiled by Census and Economic Information Center, Montana Dept. of Commerce, 1984.

## TABLE III - 21

## LABOR FORCE CHARACTERISTICS: CLASS OF WORKER, 1980

| Group | United States* | | Montana | | Idaho | | Wyoming | |
|---|---|---|---|---|---|---|---|---|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Employed Persons 16 Yrs & Over | 97,639,355 | 100.0 | 328,316 | 100.0 | 383,652 | 100.0 | 217,374 | 100.0 |
| Private Wage & Salary Workers | 73,772,204 | 75.6 | 214,018 | 65.2 | 266,801 | 69.5 | 155,459 | 71.5 |
| Federal Government Workers | 3,762,008 | 3.9 | 18,390 | 5.6 | 17,687 | 4.6 | 8,798 | 4.0 |
| State Government Workers | 4,473,825 | 4.6 | 21,451 | 6.5 | 24,060 | 6.3 | 13,211 | 6.1 |
| Local Government Workers | 8,453,968 | 8.7 | 31,826 | 9.7 | 27,053 | 7.1 | 20,774 | 9.6 |
| Self-Employed Workers | 6,677,871 | 6.8 | 39,816 | 12.1 | 44,576 | 11.6 | 17,846 | 8.2 |
| Unpaid Family Workers | 494,479 | 0.5 | 2,815 | 0.9 | 3,475 | 0.9 | 1,286 | 0.6 |
| Combined Public Sector Workers | | 17.2 | | 21.8 | | 18.0 | | 19.7 |

* does not total to exactly 100 percent due to rounding.

SOURCE: U.S. Bureau of the Census, General Social and Economic Characteristics, volumes for the U.S., Montana, Montana, Idaho, and Wyoming, Tables 90 (U.S.) and 67 (states).

TABLE III - 22

## NUMBER OF FULL- & PART-TIME JOBS IN MONTANA

| Employment by Place of Work[1] | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Total Employment by Type:[2] | 365,442 | 372,354 | 367,754 | 365,331 | 360,068 | 363,733 |
| Wage & Salary Employment:[3] | 302,716 | 309,664 | 305,476 | 302,945 | 296,749 | 299,320 |
| Proprietors' Employment[3] | 62,726 | 62,690 | 62,278 | 62,386 | 63,319 | 64,413 |
| Farm | 23,964 | 23,973 | 23,986 | 23,992 | 24,008 | 23,903 |
| Non-Farm | 38,762 | 38,717 | 38,293 | 38,394 | 39,311 | 40,510 |
| Wage & Salary Employment by Industry: | | | | | | |
| Farm | 9,136 | 10,839 | 10,300 | 8,866 | 9,408 | 8,909 |
| Non-Farm | 293,580 | 295,176 | 298,825 | 294,079 | 287,341 | 290,411 |
| Private | 217,474 | 222,557 | 219,232 | 221,186 | 215,282 | 216,677 |
| Agric. Services, Forestry & Fisheries:[4] | 1,932 | 1,822 | 1,818 | 1,870 | 1,862 | 1,992 |
| Agricultural Services[4] | 1,880 | 1,768 | 1,730 | 1,743 | 1,729 | 1,795 |
| Forestry & Fisheries[4] | 52 | 54 | 88 | 127 | 133 | 197 |
| Forestry | 52 | 45 | 81 | 126 | 133 | 196 |
| Fisheries[4] | 0 | (L) | (L) | (L) | 0 | (L) |
| Mining: | 6,922 | 7,721 | 8,818 | 11,351 | 9,384 | 7,459 |
| Coal Mining | 1,239 | 1,346 | 1,393 | 1,404 | 1,283 | 1,289 |
| Anthracite Mining | 0 | 0 | 0 | 0 | 0 | 0 |
| Bituminous Coal & Lignite Mining | 1,239 | 1,346 | 1,393 | 1,404 | 1,283 | 1,289 |
| Oil & Gas Extraction | 2,849 | 3,356 | 4,664 | 6,825 | 5,463 | 3,749 |
| Metal Mining | 2,030 | 2,144 | 1,917 | 2,306 | 1,765 | 1,514 |
| Nonmetallic Minerals, except Fuels | 804 | 875 | 844 | 816 | 873 | 907 |
| Construction: | 16,592 | 15,611 | 14,602 | 13,235 | 13,367 | 13,443 |
| General Building Contractors | 5,765 | 5,462 | 4,693 | 3,717 | 3,247 | 3,518 |
| Heavy Construction Contractors | 4,597 | 4,055 | 3,861 | 4,521 | 5,414 | 4,964 |
| Special Trade Contractors | 6,230 | 6,094 | 6,048 | 4,997 | 4,706 | 4,961 |

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## TABLE III - 22
(cont.)

| Employment by Place of Work[1] | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Manufacturing: | 26,337 | 26,895 | 24,239 | 23,138 | 20,461 | 22,058 |
| Nondurable Goods | 8,910 | 9,140 | 9,000 | 8,958 | 8,825 | 8,975 |
| Food & Kindred Products | 4,056 | 4,116 | 4,050 | 3,815 | 3,672 | 3,699 |
| Textile Mill Products | (D) | 0 | 0 | 0 | 0 | 0 |
| Apparel & Other Textile Products | 201 | 194 | 213 | 278 | 374 | 431 |
| Paper & Allied Products | 658 | 712 | 809 | 836 | 801 | 865 |
| Printing & Publishing | 2,278 | 2,368 | 2,238 | 2,293 | 2,264 | 2,338 |
| Chemicals & Allied Products | 582 | 606 | 547 | 512 | 522 | 481 |
| Petroleum & Coal Products | 1,045 | 1,022 | 1,020 | 1,066 | 1,042 | 1,010 |
| Tobacco Manufacturers | 0 | 0 | 0 | 0 | 0 | 0 |
| Rubber & Misc. Plastics Products | 74 | 96 | 91 | 124 | 118 | 102 |
| Leather & Leather Products | (D) | 26 | 32 | 34 | 32 | 49 |
| Durable Goods: | 17, 427 | 17,755 | 15,239 | 14,180 | 11,636 | 13,083 |
| Lumber & Wood Products | 10,750 | 10,913 | 9,235 | 8,772 | 7,115 | 8,812 |
| Furniture & Fixtures | (D) | (D) | 106 | (D) | 135 | 159 |
| Primary Metal Industries | (D) | (D) | 2,641 | (D) | 1,412 | 1,180 |
| Fabricated Metal Products | 553 | 586 | 644 | 656 | 578 | 544 |
| Machinery, except Electrical | 402 | 448 | 393 | 502 | 361 | 310 |
| Electric & Electronic Equipment | 232 | 311 | 320 | 323 | 251 | 244 |
| Transportation Equip., except Motor Vehicles | 169 | 132 | 74 | 70 | 48 | 67 |
| Motor Vehicles & Equipment | 33 | 42 | 34 | 129 | 117 | 90 |
| Stone, Clay & Glass Products | 1,371 | 1,364 | 1,251 | 1,154 | 1,109 | 1,134 |
| Instruments & Related Products | 92 | 105 | 93 | 98 | 129 | 154 |
| Misc. Manufacturing Industries | 498 | 456 | 448 | 368 | 381 | 389 |
| Transportation & Public Utilities: | 21,771 | 23,481 | 23,093 | 23,158 | 22,413 | 21,020 |
| Railroad Transportation | 6,879 | 7,432 | 6,875 | 6,256 | 5,194 | 4,436 |
| Trucking & Warehousing | (D) | 4,595 | 4,415 | 4,778 | 4,757 | 4,777 |
| Water Transportation | 27 | 24 | 26 | 27 | 23 | 21 |
| Other Transportation: | (D) | 2,467 | 2,470 | 2,559 | 2,576 | 2,549 |
| Local & Interurban Passenger Transit | 1,007 | 1,375 | (D) | 1,340 | 1,327 | 1,345 |
| Transportation by Air | 604 | 678 | 662 | 741 | 745 | 693 |
| Pipelines, except Natural Gas | (D) | (D) | (D) | (D) | 102 | 95 |
| Transportation Services | (D) | (D) | 349 | (D) | 402 | 416 |
| Communication | 4,668 | 5,079 | 5,201 | 5,257 | 5,311 | 4,580 |
| Electric, Gas & Sanitary Services | 3,539 | 3,884 | 4,106 | 4,281 | 4,552 | 4,657 |

## TABLE III - 22
(cont.)

| Employment by Place of Work[1] | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Wholesale Trade | 16,520 | 17,411 | 17,688 | 18,072 | 17,305 | 17,071 |
| Retail Trade: | 55,776 | 56,195 | 54,557 | 55,050 | 55,120 | 56,651 |
| Building Materials & Farm Equipment | 3,285 | 3,285 | 3,099 | 3,008 | 2,860 | 3,088 |
| General Merchandise Stores | 5,967 | 5,899 | 5,737 | 5,695 | 5,611 | 5,614 |
| Food Stores | 7,565 | 7,837 | 7,925 | 8,025 | 8,092 | 8,215 |
| Automotive Dealers & Service Stations | 8,956 | 8,625 | 7,725 | 7,420 | 7,047 | 7,184 |
| Apparel & Accessory Stores | 2,565 | 2,659 | 2,577 | 2,547 | 2,512 | 2,539 |
| Furniture & Home Furnishings Stores | 1,886 | 1,993 | 1,986 | 1,960 | 1,955 | 2,131 |
| Eating & Drinking Places | 19,926 | 20,092 | 19,670 | 20,514 | 21,052 | 21,889 |
| Miscellaneous Retail Stores | 5,626 | 5,805 | 5,838 | 5,881 | 5,991 | 5,991 |
| Finance, Insurance & Real Estate: | 12,781 | 13,286 | 13,597 | 13,570 | 13,577 | 13,795 |
| Banking | 5,139 | 5,320 | 5,450 | 5,476 | 5,390 | 5,338 |
| Other Finance, Insurance & Real Estate | 7,642 | 7,966 | 8,147 | 8,094 | 8,187 | 8,457 |
| Credit Agencies except Banks | 1,457 | 1,525 | 1,514 | 1,517 | 1,490 | 1,581 |
| Security & Commodity Brokers & Services | 285 | 318 | 349 | 389 | 445 | 486 |
| Insurance Carriers | 1,743 | 1,846 | 1,939 | 1,956 | 1,922 | 1,820 |
| Insurance Agents, Brokers & Services | 1,311 | 1,384 | 1,468 | 1,571 | 1,662 | 1,732 |
| Real Estate | 2,574 | 2,627 | 2,619 | 2,456 | 2,464 | 2,605 |
| Combined Real Estate, Insurance, etc. | 206 | 194 | 198 | 123 | 104 | 93 |
| Holding & Other Investment Companies | 66 | 72 | 60 | 82 | 100 | 140 |
| Services: | 58,843 | 60,135 | 60,820 | 61,742 | 61,793 | 63,188 |
| Hotels & Other Lodging Places | 6,702 | 6,672 | 6,895 | 7,090 | 6,771 | 6,768 |
| Personal Services | 2,570 | 2,544 | 2,596 | 2,584 | 2,528 | 2,590 |
| Private Households | 5,238 | 4,835 | 4,408 | 4,430 | 4,510 | 4,601 |
| Business & Repair Services: | 6,231 | 6,700 | 6,809 | 7,305 | 7,104 | 7,594 |
| Business Services | 3,663 | 3,942 | 4,189 | 4,588 | 4,402 | 4,804 |
| Auto Repair, Services & Garages | 1,782 | 1,915 | 1,744 | 1,786 | 1,805 | 1,909 |
| Miscellanous Repair Services | 786 | 843 | 876 | 931 | 897 | 881 |
| Amusement & Recreation, incl. Motion Pictures | 2,335 | 2,659 | 2,465 | 2,566 | 2,728 | 2,828 |
| Amusement & Recreation Services | 1,543 | 1,655 | 1,683 | 1,799 | 1,999 | 2,109 |
| Motion Pictures | 792 | 1,004 | 782 | 767 | 729 | 719 |

TABLE III - 22
(cont.)

| Employment by Place of Work[1] | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Services (cont.) | | | | | | |
| Professional, Social & Related Services | 35,767 | 36,725 | 37,647 | 37,767 | 38,152 | 38,807 |
| Health Services | 17,519 | 17,885 | 18,615 | 19,520 | 20,758 | 21,213 |
| Legal Services | 1,216 | 1,312 | 1,388 | 1,453 | 1,528 | 1,582 |
| Educational Services | 2,006 | 1,881 | 1,830 | 1,738 | 1,758 | 1,659 |
| Social Services | 4,707 | 4,651 | 5,088 | 4,770 | 4,104 | 4,266 |
| Museums, Botanical, Zoological Gardens | 40 | 46 | 56 | 60 | 73 | 76 |
| Membership Organizations | 7,399 | 7,845 | 7,496 | 7,151 | 6,944 | 7,026 |
| Miscellaneous Services | 2,880 | 3,105 | 3,174 | 3,075 | 2,987 | 2,985 |
| Government & Government Enterprises: | 76,106 | 76,268 | 75,944 | 72,893 | 72,059 | 73,734 |
| Federal, Civilian | 13,718 | 13,919 | 13,851 | 13,657 | 13,159 | 13,070 |
| Military | 11,092 | 9,776 | 9,256 | 8,168 | 8,015 | 8,555 |
| State & Local | 52,296 | 52,573 | 52,837 | 51,068 | 50,885 | 52,109 |
| Total Population (Thousands): | 782 | 787 | 788 | 796 | 805 | 815 |

(L) - Less than 10 jobs.
(D) - Withheld to avoid disclosure of individual firm which may dominate an industrial sector.

[1] Consists of full- and part-time employment.
[2] Includes wage and salary employment plus number of proprietors.
[3] Proprietors are self-employed persons.
[4] Includes fishing, hunting and trapping.

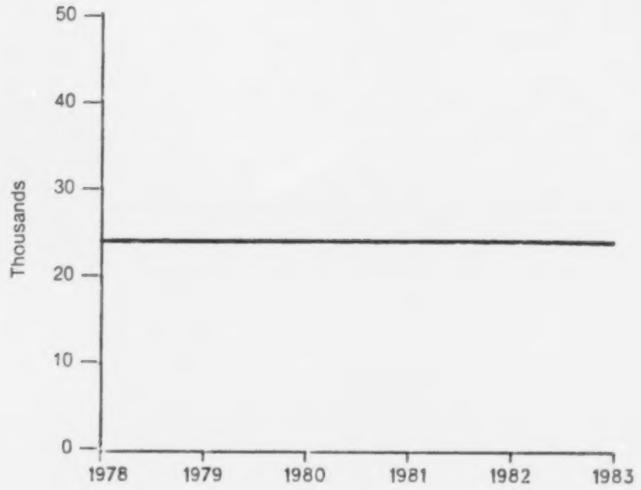
SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished, August 1984, and Keegan, Jackson and Johnson, Montana's Forest Products Industry, 1983, p. 72 for lumber and wood products in 1981.

# FIGURE III-4

## MONTANA EMPLOYMENT
## 1978-1983

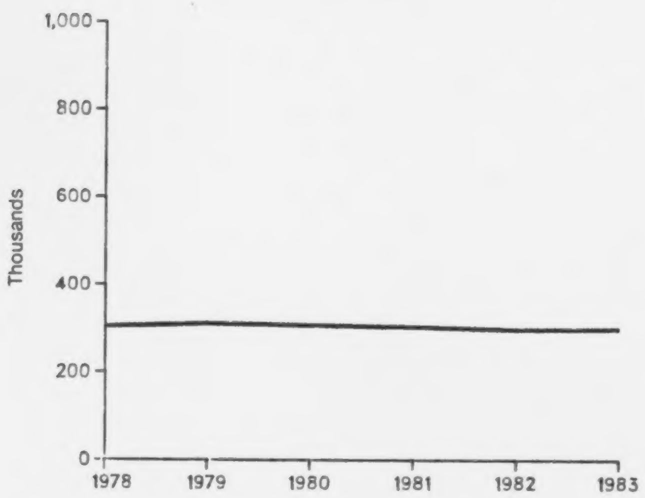
### Figure III-4a

Farm Proprietors:
Employment



### Figure III-4b

Wage & Salary Employment

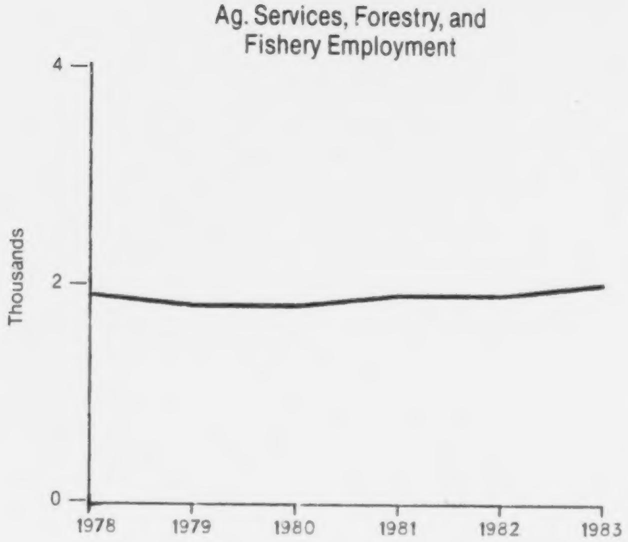


*Source: U.S. Bureau of Economic Analysis.*

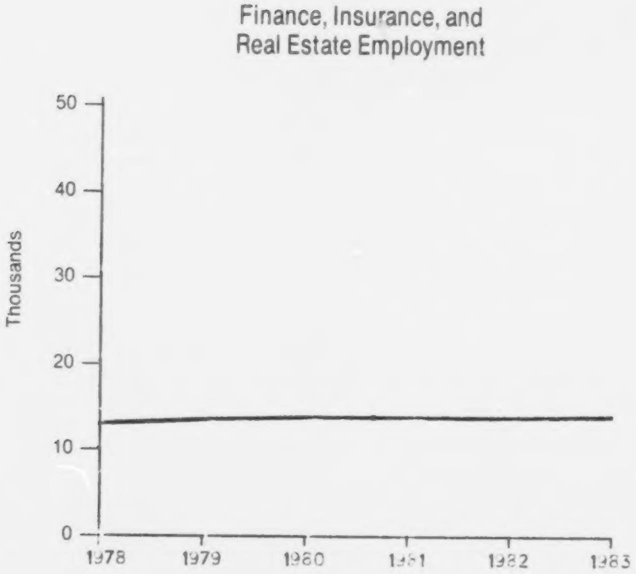
## Figure III-4 (continued)

## MONTANA EMPLOYMENT
## 1978-1983

### Figure III-4c



### Figure III-4d



Note: Excludes proprietors.

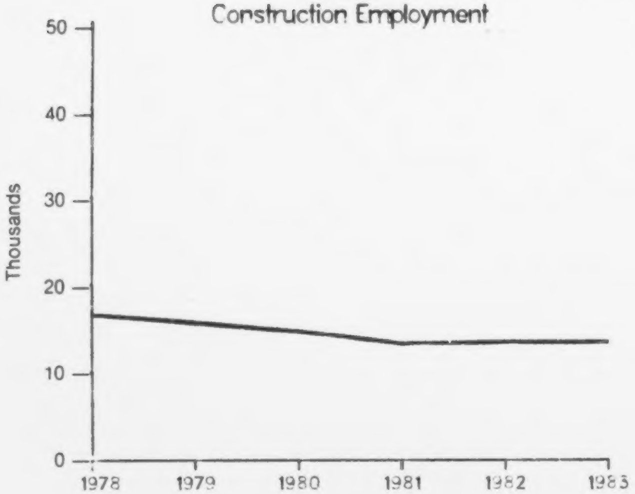
*Source: U.S. Bureau of Economic Analysis.*

## Figure III-4 (continued)

## MONTANA EMPLOYMENT
## 1978-1983

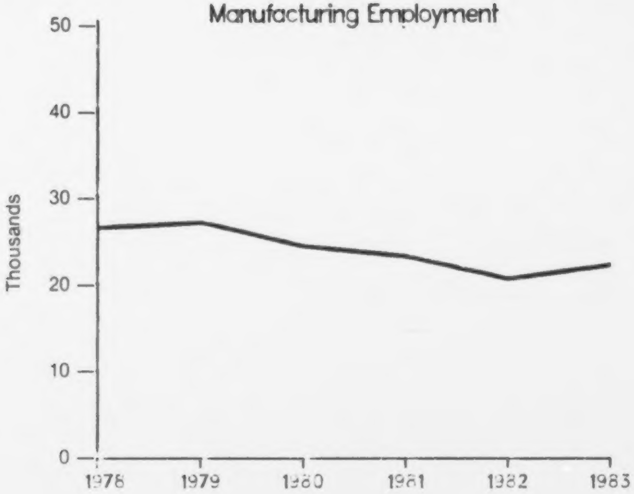
### Figure III-4e

Construction Employment



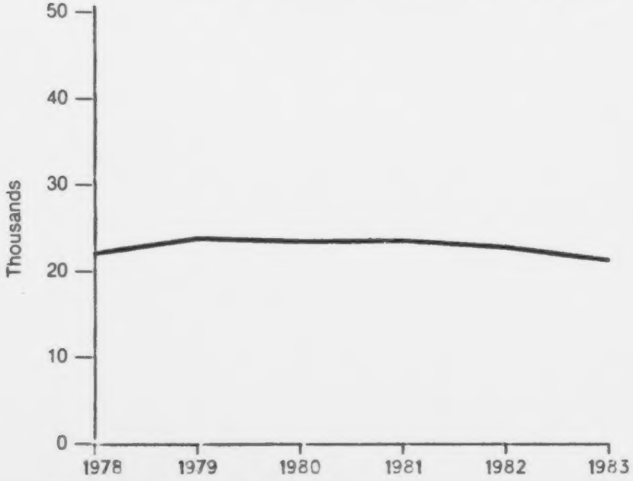
### Figure III-4f

Manufacturing Employment



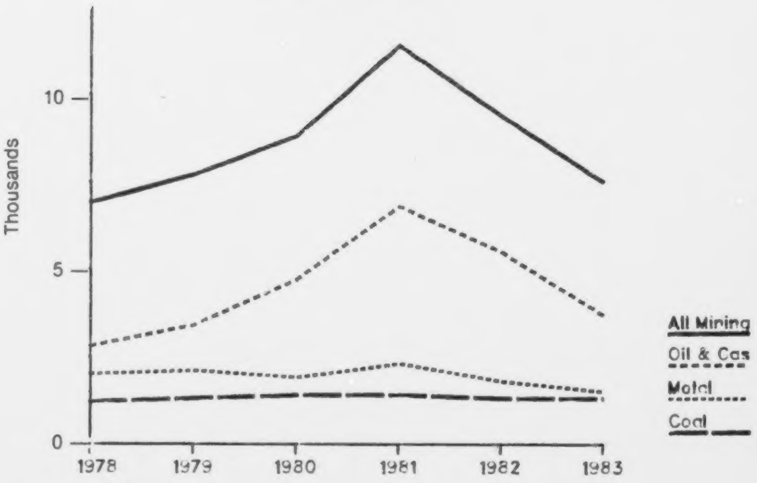
### Figure III-4g

Transportation and Public Utility Employment



### Figure III-4h

Mining Employment



Note: Excludes proprietors.

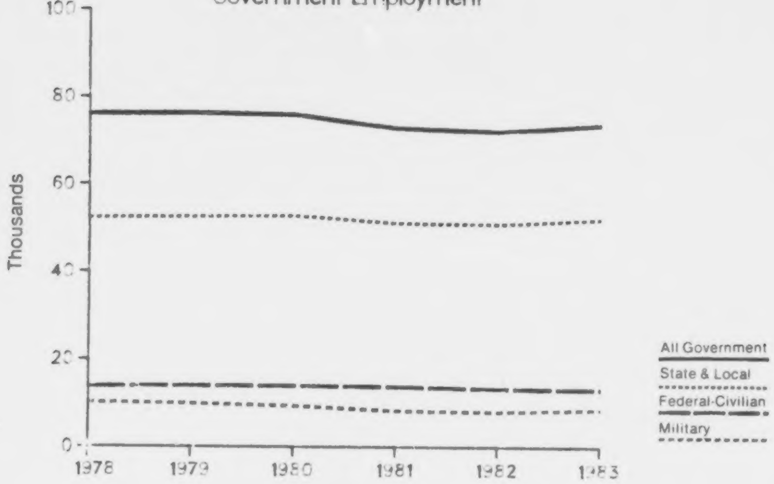
*Source: U.S. Bureau of Economic Analysis.*

## Figure III-4 (continued)

## MONTANA EMPLOYMENT
## 1978-1983

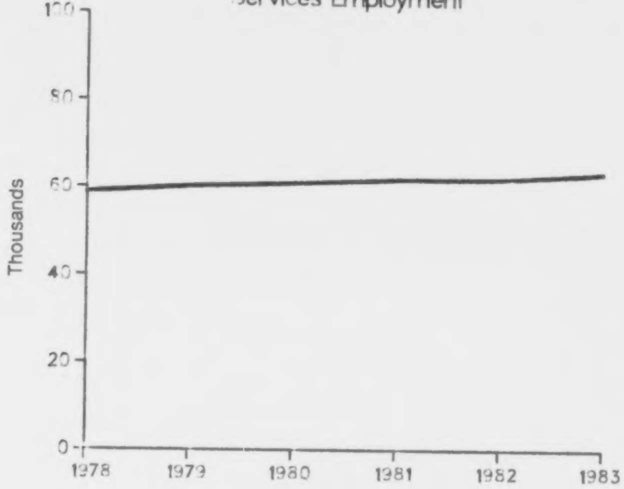
### Figure III-4i

Government Employment



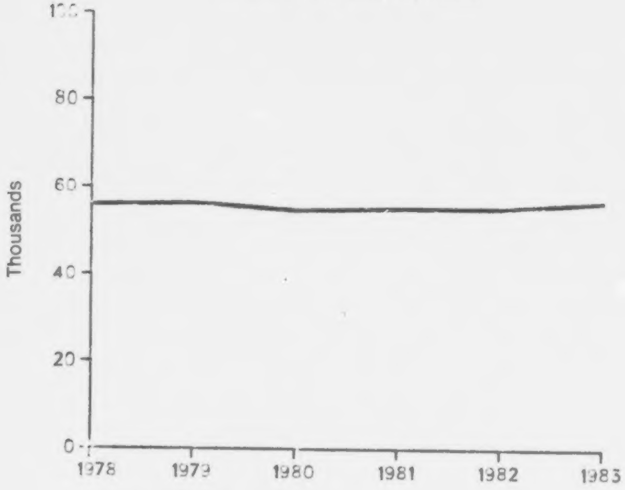
### Figure III-4j

Services Employment



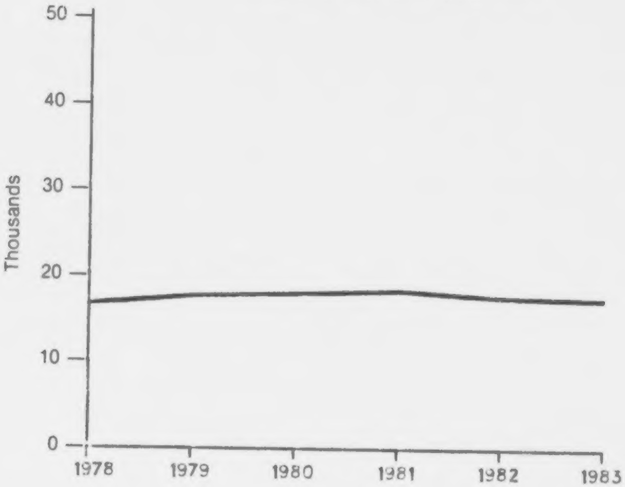
### Figure III-4k

Retail Trade Employment



### Figure III-4l

Wholesale Trade Employment



Note: Excludes proprietors.

*Source: U.S. Bureau of Economic Analysis.*

## TABLE III - 23

## CIVILIAN LABOR FORCE PARTICIPATION RATES, 1980

| | Total | Male | Female | White | Black & Other |
|---|---|---|---|---|---|
| United States | 63.8 | 77.4 | 51.6 | 64.1 | 61.2 |
| Montana | 64.4 | 77.6 | 51.9 | 64.9 | 54.1 |
| Idaho | 65.1 | 79.0 | 51.8 | 65.1 | NA |
| Wyoming | 70.0 | 84.5 | 55.5 | 70.2 | NA |

NA - Not available

SOURCE: U.S. Bureau of the Census, State and Metropolitan Area Data Book, 1982, p. 497.

## TABLE III - 24

## FEMALES, AGE 16 & OVER WITH OWN CHILDREN, BY LABOR FORCE STATUS & AGE OF CHILDREN: MONTANA

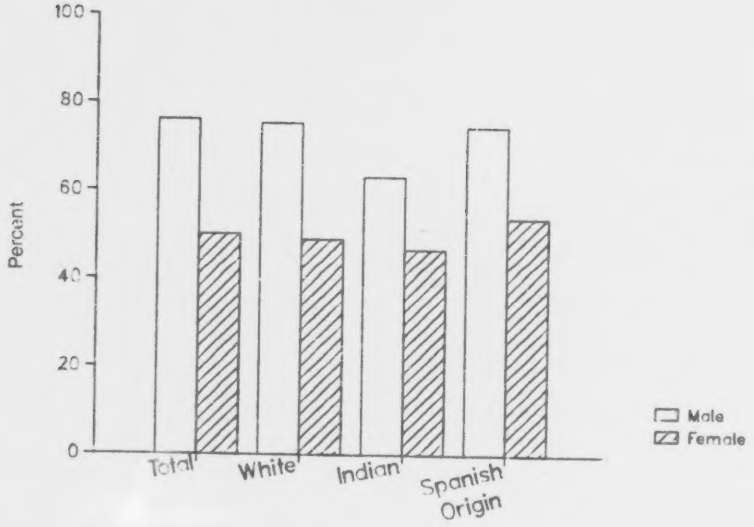
## 1970 & 1980

| | 1970 | | 1980 | |
|---|---|---|---|---|
| Females 16 Yrs. & Over | Number | Percent in Labor Force | Number | Percent in Labor Force |
| With own Children under 18 Yrs | 97,723 | 39.9 | 110,590 | 54.5 |
| With own Children under 6 Yrs | 46,586 | 30.8 | 53,038 | 44.6 |
| With own Children 6-17 Yrs | 51,137 | 48.2 | 57,552 | 63.4 |

SOURCE: U.S. Bureau of the Census, Census of Population: 1970 & 1980, Computer Tapes.

## FIGURE III-5

Montana
Labor Force Participation Rate
1980



Percent of Population over 16 in The Civilian Labor Force.

*Source: U.S. Bureau of The Census.*

## TABLE III - 25

## MONTANA CIVILIAN LABOR FORCE, UNEMPLOYMENT, & PARTICIPATION RATES: 1980

| Persons 16 & Over | Employed | Unemployed | Percent Unemployed | Not in Labor Force | Participation Rate |
|---|---|---|---|---|---|
| Total: | | | | | |
| Male | 193,532 | 19,611 | 9.2 | 66,782 | 76.1 |
| Female | 134,784 | 9,919 | 6.9 | 143,419 | 50.2 |
| White: | | | | | |
| Male | 186,782 | 17,742 | 8.7 | 66,782 | 75.3 |
| Female | 128,896 | 8,893 | 6.5 | 143,419 | 49.0 |
| Indian: | | | | | |
| Male | 5,312 | 1,653 | 23.7 | 4,053 | 63.2 |
| Female | 4,685 | 888 | 15.9 | 6,330 | 46.8 |
| Spanish Origin: | | | | | |
| Male | 1,859 | 295 | 13.7 | 732 | 74.6 |
| Female | 1,508 | 141 | 8.6 | 1,407 | 54.0 |

SOURCE: U.S. Bureau of the Census, Summary Tape File 3A, 1980 Census.

## TABLE III - 26

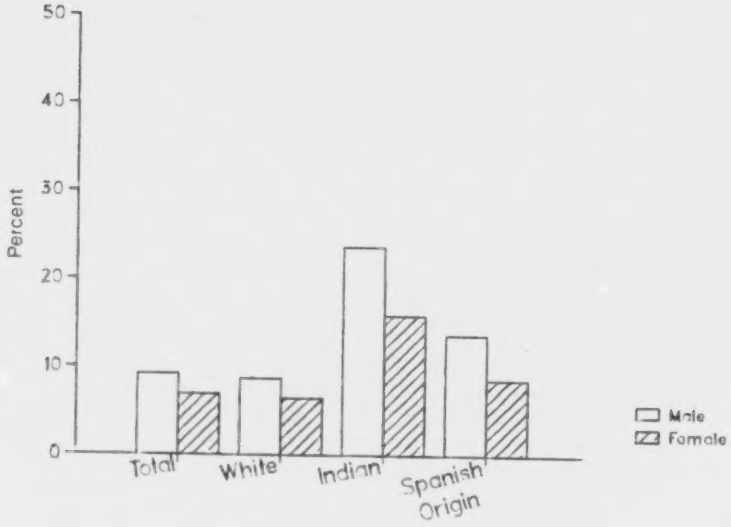
## AMERICAN INDIAN UNEMPLOYMENT IN MONTANA: 1980

| Group | Percent of Civilian Labor Force |
|---|---|
| Statewide Indian Rate | 20.2 |
| Blackfeet Reservation | 14.7 |
| Crow Reservation | 35.2 |
| Flathead Reservation | 20.2 |
| Fort Belknap Reservation | 8.9 |
| Fort Peck Reservation | 25.2 |
| Northern Cheyenne Reservation | 15.7 |
| Rocky Boy's Reservation | 11.3 |
| Overall Montana Unemployment Rate for All Races | 8.3 |

SOURCE: U.S. Bureau of the Census, 1980 Census, General Social & Economic Characteristics, Montana, pp. 28-36, 28-51, 28-74, and 28-263.

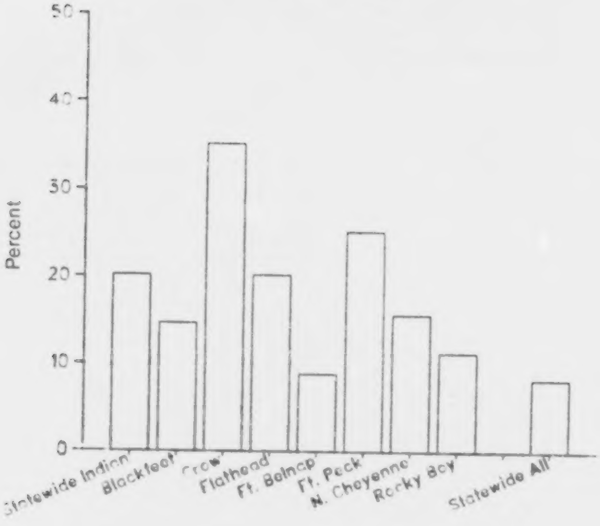
## FIGURE III-6

Montana
1980 Unemployment Rate,
By Race and Sex



## FIGURE III-7

1980 Indian Unemployment Rate,
By Reservation



*Source: U.S. Bureau of The Census.*

# CHAPTER IV

# INCOME

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## TABLE IV - 1

## PER CAPITA DISPOSABLE PERSONAL INCOME
## U.S., ROCKY MOUNTAIN STATES, & MONTANA: 1948-1983

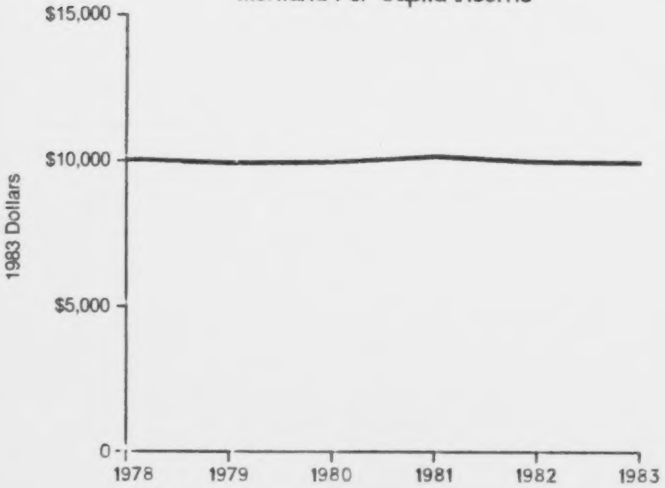
| Year | US | Rockies* | Montana | Montana/US | Montana/Rockies |
|---|---|---|---|---|---|
| 1948 | $1,278 | $1,301 | $1,487 | 116.4 | 114.3 |
| 1949 | $1,255 | $1,261 | $1,286 | 102.5 | 102.0 |
| 1950 | $1,357 | $1,358 | $1,516 | 111.7 | 111.6 |
| 1951 | $1,460 | $1,515 | $1,608 | 110.1 | 106.1 |
| 1952 | $1,511 | $1,550 | $1,607 | 106.4 | 103.7 |
| 1953 | $1,578 | $1,516 | $1,595 | 101.1 | 105.2 |
| 1954 | $1,580 | $1,495 | $1,557 | 98.5 | 104.2 |
| 1955 | $1,658 | $1,570 | $1,673 | 100.9 | 106.6 |
| 1956 | $1,737 | $1,625 | $1,696 | 97.6 | 104.4 |
| 1957 | $1,797 | $1,723 | $1,724 | 95.9 | 100.1 |
| 1958 | $1,820 | $1,754 | $1,811 | 99.5 | 103.3 |
| 1959 | $1,900 | $1,808 | $1,732 | 91.2 | 95.8 |
| 1960 | $1,938 | $1,843 | $1,793 | 92,5 | 97.3 |
| 1961 | $1,981 | $1,881 | $1,728 | 87.2 | 91.9 |
| 1962 | $2,065 | $1,993 | $2,056 | 99.6 | 103.2 |
| 1963 | $2,135 | $2,027 | $2,009 | 94.1 | 99.1 |
| 1964 | $2,286 | $2,135 | $2,064 | 90.3 | 96.7 |
| 1965 | $2,438 | $2,286 | $2,214 | 90.8 | 96.9 |
| 1966 | $2,602 | $2,391 | $2,363 | 90.8 | 98.8 |
| 1967 | $2,747 | $2,504 | $2,429 | 88.4 | 97.0 |
| 1968 | $2,947 | $2,644 | $2,550 | 86.5 | 96.4 |
| 1969 | $3,144 | $2,819 | $2,695 | 85.7 | 95.6 |
| 1970 | $3,382 | $3,096 | $2,986 | 88.3 | 96.5 |
| 1971 | $3,608 | $3,330 | $3,115 | 86.3 | 93.5 |
| 1972 | $3,846 | $3,631 | $3,561 | 92,6 | 98.1 |
| 1973 | $4,302 | $4,081 | $4,136 | 96.1 | 101.4 |
| 1974 | $4,655 | $4,451 | $4,394 | 94.4 | 98.7 |
| 1975 | $5,063 | $4,808 | $4,722 | 93.3 | 98.2 |
| 1976 | $5,468 | $5,190 | $4,976 | 91.0 | 95.9 |
| 1977 | $5,957 | $5,622 | $5,297 | 88.9 | 94.2 |
| 1978 | $6,611 | $6,342 | $6,064 | 91.7 | 95.6 |
| 1979 | $7,314 | $7,063 | $6,459 | 88.3 | 91.5 |
| 1980 | $8,016 | $7,769 | $7,147 | 89.2 | 92.0 |
| 1981 | $8,859 | $8,598 | $7,949 | 89.7 | 92.5 |
| 1982 | $9,374 | $9,007 | $8,324 | 88.8 | 92.4 |
| 1983 | $9,962 | $9,438 | $8,575 | 86.1 | 90.9 |

* Rockies consists of Colorado, Idaho, Montana, Utah & Wyoming

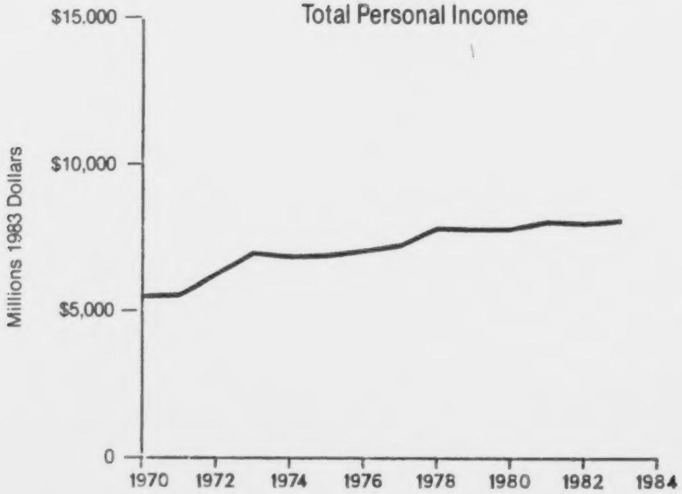
SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished, August 1984.

## FIGURE IV-1
## MONTANA INCOME

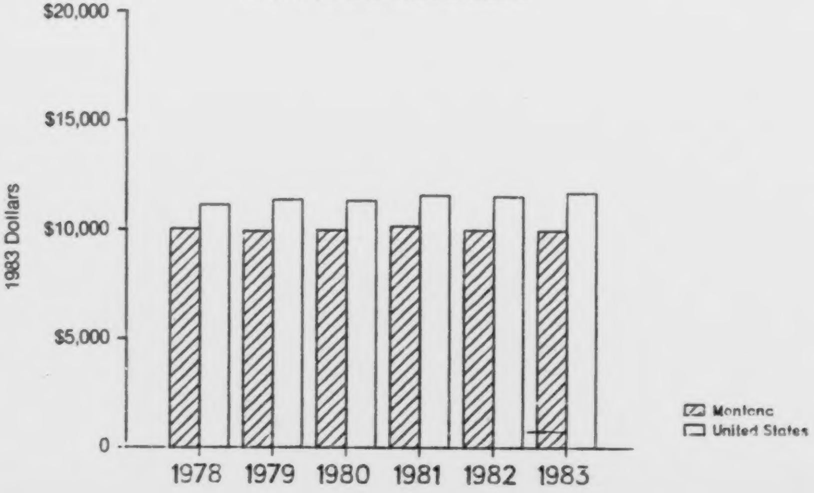
### Figure IV-1a
Montana Per Capita Income



### Figure IV-1b
Montana
Total Personal Income



### Figure IV-1c
Per Capita Income
Montana and United States



*Source: U.S. Bureau of Economic Analysis.*

## TABLE IV - 2

## MONTANA PERSONAL INCOME, CURRENT & CONSTANT DOLLARS
1970 - 1983
(in thousands of dollars)

| Year | Current $ | Constant* 1983 $ | % Change from Prev. Yr. Current $ | % Change from Prev. Yr. Constant* 1983 $ |
|---|---|---|---|---|
| 1970 | $2,389,807 | $5,518,516 | (X) | (X) |
| 1971 | 2,514,897 | 5,566,653 | 5.2 | 0.9 |
| 1972 | 2,942,757 | 6,285,729 | 17.0 | 12.9 |
| 1973 | 3,463,542 | 6,999,173 | 17.7 | 11.4 |
| 1974 | 3,746,940 | 6,875,828 | 8.2 | -1.8 |
| 1975 | 4,059,793 | 6,920,764 | 8.3 | 0.7 |
| 1976 | 4,371,231 | 7,089,559 | 7.7 | 2.4 |
| 1977 | 4,752,237 | 7,286,991 | 8.7 | 2.8 |
| 1978 | 5,491,125 | 7,866,561 | 15.5 | 8.0 |
| 1979 | 5,954,464 | 7,826,914 | 8.4 | -0.5 |
| 1980 | 6,575,644 | 7,846,690 | 10.4 | 0.3 |
| 1981 | 7,364,229 | 8,087,400 | 12.0 | 3.1 |
| 1982 | 7,740,594 | 8,026,169 | 5.1 | -0.8 |
| 1983 | 8,123,988 | 8,123,988 | 5.0 | 1.2 |

* Implicit price deflator for personal consumption expenditures used for constant dollars.

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished, August 1984. Constant Dollars by Census and Economic Information Center, Montana Dept. of Commerce, October 1984.

## TABLE IV - 3

## MONTANA INCOME
(thousands of current dollars)

| Income by Place of Residence | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Total Personal Income: | 5,491,125 | 5,954,464 | 6,575,644 | 7,364,229 | 7,740,594 | 8,123,988 |
| Non-Farm[1] | 5,170,225 | 5,779,400 | 6,327,482 | 7,041,471 | 7,507,541 | 7,909,821 |
| Farm | 320,900 | 175,064 | 248,162 | 322,753 | 233,053 | 214,167 |
| Population[2] (thousands) | 782 | 787 | 788 | 796 | 805 | 815 |
| Per Capita Personal Income (dollars) | 7,022 | 7,566 | 8,342 | 9,254 | 9,617 | 9,968 |
| Derivation of Total Personal Income | | | | | | |
| Labor Income by Place of Work:[3] | 4,103,579 | 4,334,599 | 4,642,480 | 5,018,855 | 5,048,655 | 5,291,267 |
| Less Pers. Contrib. for Soc. Insur. | 246,852 | 285,616 | 308,519 | 357,288 | 375,815 | 396,366 |
| Plus Adjust. for Residence | -10,319 | -10,454 | -13,568 | -12,621 | -11,895 | -13,191 |
| Equals Net Erngs. by Place of Res. | 3,846,408 | 4,038,529 | 4,320,393 | 4,648,946 | 4,660,945 | 4,881,710 |
| Plus Dividents, Interest & Rent[4] | 914,133 | 1,094,613 | 1,284,590 | 1,607,702 | 1,834,147 | 1,889,972 |
| Plus Transfer Payments | 730,584 | 821,322 | 970,661 | 1,107,581 | 1,245,502 | 1,352,306 |
| Labor Income by Place of Work: | | | | | | |
| Components of Earnings: | | | | | | |
| Wages & Salaries | 3,179,282 | 3,578,103 | 3,855,814 | 4,199,980 | 4,342,684 | 4,521,201 |
| Other Labor Income | 259,650 | 281,200 | 305,451 | 336,830 | 390,192 | 432,885 |
| Proprietors' Income[5] | 664,647 | 475,296 | 481,215 | 482,045 | 315,779 | 337,181 |
| Farm | 206,282 | 28,224 | 89,282 | 168,430 | 53,466 | 36,658 |
| Non-Farm | 458,365 | 447,072 | 391,933 | 313,615 | 262,313 | 300,523 |
| Labor Income by Industry: | | | | | | |
| Farm | 320,900 | 175,064 | 248,162 | 322,758 | 233,053 | 214,167 |
| Non-Farm | 3,782,679 | 4,159,535 | 4,394,318 | 4,696,097 | 4,815,602 | 5,077,100 |
| Private | 2,967,241 | 3,271,284 | 3,440,621 | 3,667,968 | 3,711,277 | 3,888,860 |

## TABLE IV - 3
(cont.)

| Labor Income by Industry | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Agric. Serv., Forestry & Fisheries[6] | 17,502 | 17,470 | 17,743 | 18,446 | 19,723 | 22,197 |
| Agricultural Services | 14,720 | 14,851 | 14,682 | 16,131 | 17,216 | 18,865 |
| Forestry & Fisheries[6] | 2,782 | 2,619 | 3,061 | 2,315 | 2,507 | 3,332 |
| Forestry | 1,994 | 1,531 | 1,780 | 1,902 | 2,307 | 3,107 |
| Fisheries[6] | 788 | 1,088 | 1,281 | 413 | 200 | 225 |
| | | | | | | |
| Mining: | 145,841 | 202,014 | 245,515 | 322,437 | 294,081 | 234,823 |
| Coal Mining | 35,209 | 42,354 | 45,698 | 50,841 | 51,217 | 53,125 |
| Anthracite Mining | 0 | 0 | 0 | 0 | 0 | 0 |
| Bituminous Coal & Lignite Mining | 35,209 | 42,354 | 45,698 | 50,841 | 51,217 | 53,125 |
| Oil & Gas Extraction | 57,382 | 96,862 | 132,799 | 193,438 | 176,715 | 113,284 |
| Metal Mining | 39,188 | 45,943 | 48,764 | 61,730 | 48,143 | 47,982 |
| Nonmetallic Minerals, except Fuels | 14,062 | 16,855 | 18,254 | 16,428 | 18,006 | 20,432 |
| | | | | | | |
| Construction: | 355,109 | 352,006 | 343,746 | 331,175 | 341,666 | 351,361 |
| General Building Contractors | 109,480 | 118,622 | 112,893 | 81,349 | 71,382 | 79,163 |
| Heavy Construction Contractors | 105,702 | 95,810 | 90,741 | 126,957 | 152,458 | 142,166 |
| Special Trade Contractors | 139,927 | 137,574 | 140,112 | 122,869 | 117,826 | 130,032 |
| | | | | | | |
| Manufacturing: | 455,124 | 500,841 | 491,436 | 509,257 | 461,805 | 518,492 |
| Nondurable Goods | 141,528 | 158,050 | 173,192 | 190,262 | 196,869 | 207,021 |
| Food & Kindred Products | 56,740 | 62,425 | 67,792 | 71,764 | 71,019 | 72,757 |
| Textile Mill Products | (D) | (L) | 137 | (L) | (L) | (L) |
| Apparel & Other Textile Products | 1,733 | 1,820 | 2,380 | 3,110 | 4,882 | 6,118 |
| Paper & Allied Products | 14,735 | 17,441 | 23,142 | 26,318 | 25,429 | 30,211 |
| Printing & Publishing | 26,002 | 28,717 | 30,078 | 32,352 | 34,562 | 36,978 |
| Chemicals & Allied Products | 11,227 | 12,854 | 12,812 | 13,033 | 14,507 | 13,809 |
| Petroleum & Coal Products | 29,990 | 33,441 | 35,333 | 41,782 | 44,589 | 45,136 |
| Tobacco Manufacturers | 0 | 0 | 0 | 0 | 0 | 0 |
| Rubber & Misc. Plastics Products | 741 | 1,051 | 1,118 | 1,559 | 1,594 | 1,565 |
| Leather & Leather Products | (D) | 282 | 401 | 315 | 270 | 422 |

## TABLE IV - 3
(cont.)

| Labor Income by Industry | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Durable Goods: | 313,596 | 342,791 | 318,243 | 318,995 | 264,936 | 311,471 |
| Lumber & Wood Products | 192,557 | 205,008 | 181,258 | 185,000 | 156,391 | 208,073 |
| Furniture & Fixtures | (D) | (D) | 1,741 | (D) | 2,122 | 2,737 |
| Primary Metal Industries | (D) | (D) | 76,599 | (D) | 45,440 | 38,690 |
| Fabricated Metal Products | 8,926 | 11,304 | 13,852 | 14,388 | 13,064 | 12,711 |
| Machinery, except Electrical | 6,138 | 7,527 | 7,723 | 9,582 | 7,910 | 6,808 |
| Electric & Electronic Equipment | 2,983 | 4,270 | 4,627 | 4,555 | 3,926 | 4,094 |
| Trans. Equip., except Mtr. Veh. | 1,801 | 1,513 | 936 | 1,099 | 737 | 1,037 |
| Motor Vehicles & Equipment | 464 | 613 | 619 | 3,262 | 3,065 | 2,493 |
| Stone, Clay & Glass Products | 22,446 | 24,540 | 24,044 | 23,546 | 24,390 | 26,209 |
| Instruments & Related Products | 1,346 | 1,514 | 1,565 | 1,734 | 2,133 | 2,882 |
| Misc. Manufacturing Industries | 5,338 | 5,202 | 5,279 | 5,431 | 5,758 | 5,737 |
| Transportation & Public Utilities: | 437,910 | 503,072 | 538,618 | 587,112 | 616,243 | 622,143 |
| Railroad Transportation | 148,581 | 178,030 | 181,152 | 176,635 | 163,773 | 152,387 |
| Trucking & Warehousing | (D) | 95,523 | 102,414 | 120,783 | 122,173 | 125,934 |
| Water Transportation | 171 | 183 | 194 | 231 | 228 | 203 |
| Other Transportation: | (D) | 36,978 | 39,495 | 41,689 | 43,094 | 44,427 |
| Local & Interurban Passenger Transit | 11,104 | 14,740 | (D) | 15,986 | 15,584 | 16,696 |
| Transportation by Air | 11,663 | 13,349 | 13,959 | 14,988 | 16,405 | 16,021 |
| Pipelines, except Natural Gas | (D) | (D) | (D) | (D) | 3,074 | 3,150 |
| Transportation Services | (D) | (D) | 8,149 | (D) | 8,031 | 8,560 |
| Communication | 93,884 | 106,891 | 116,866 | 131,341 | 143,083 | 140,574 |
| Electric, Gas & Sanitary Services | 71,832 | 85,467 | 98,497 | 116,433 | 143,892 | 158,618 |
| Wholesale Trade | 251,069 | 285,520 | 315,684 | 346,522 | 345,773 | 353,458 |
| Retail Trade: | 489,872 | 527,392 | 539,809 | 556,198 | 577,924 | 618,436 |
| Building Materials & Farm Equipment | 40,693 | 44,824 | 45,779 | 44,081 | 43,664 | 49,689 |
| General Merchandise Stores | 46,363 | 48,271 | 49,948 | 54,214 | 56,411 | 56,209 |
| Food Stores | 81,849 | 88,921 | 98,687 | 105,149 | 110,705 | 114,586 |
| Automotive Dealers & Service Stations | 105,587 | 114,532 | 106,342 | 103,470 | 104,720 | 114,395 |
| Apparel & Accessory Stores | 20,910 | 21,470 | 21,501 | 21,279 | 21,663 | 22,711 |
| Furniture & Home Furnishings Stores | 24,561 | 25,903 | 26,637 | 26,502 | 28,114 | 31,853 |
| Eating & Drinking Places | 109,789 | 117,201 | 121,702 | 131,694 | 142,453 | 154,653 |
| Miscellaneous Retail Stores | 60,120 | 66,270 | 69,213 | 69,809 | 70,194 | 74,340 |

## TABLE IV - 3
(cont.)

| Labor Income by Industry | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Finance, Insurance & Real Estate: | 190,646 | 209,207 | 219,293 | 208,642 | 219,721 | 244,538 |
| Banking | 62,513 | 70,491 | 78,837 | 86,559 | 94,630 | 100,698 |
| Other Finance, Insurance & Real Estate | 123,133 | 138,716 | 140,456 | 122,083 | 125,091 | 143,840 |
| Credit Agencies except Banks | 16,767 | 18,983 | 20,583 | 21,534 | 22,776 | 25,801 |
| Security & Commodity Brokers & Services | 11,481 | 13,724 | 14,303 | 13,927 | 16,903 | 23,211 |
| Insurance Carriers | 23,618 | 26,765 | 30,411 | 32,967 | 35,716 | 36,749 |
| Insurance Agents, Brokers & Services | 29,878 | 32,048 | 35,986 | 35,012 | 36,757 | 40,135 |
| Real Estate | 42,207 | 43,102 | 35,444 | 13,233 | 8,336 | 11,848 |
| Combined Real Estate, Insurance, etc. | 3,111 | 3,193 | 3,328 | 1,821 | 1,237 | 1,096 |
| Holding & Other Investment Companies | 1,071 | 901 | 401 | 3,589 | 3,366 | 5,000 |
| Services: | 624,168 | 673,762 | 728,777 | 788,179 | 834,341 | 923,412 |
| Hotels & Other Lodging Places | 44,126 | 47,068 | 51,455 | 48,649 | 39,915 | 46,120 |
| Personal Services | 30,912 | 33,076 | 32,511 | 31,654 | 31,656 | 33,800 |
| Private Households | 11,300 | 11,675 | 11,900 | 12,683 | 13,702 | 14,024 |
| Business Services | 41,850 | 52,836 | 57,281 | 66,637 | 68,452 | 77,436 |
| Auto Repair, Services & Garages | 29,327 | 30,563 | 29,637 | 30,899 | 29,926 | 33,548 |
| Miscellanous Repair Services | 16,700 | 17,802 | 21,758 | 19,404 | 18,215 | 18,429 |
| Amusement & Recreation Services | 9,263 | 10,738 | 10,926 | 13,515 | 15,168 | 17,232 |
| Motion Pictures | 3,703 | 15,844 | 4,122 | 1,726 | 2,110 | 2,744 |
| Professional, Social & Related Services | | | | | | |
| Health Services | 224,666 | 239,185 | 274,121 | 312,447 | 361,851 | 403,024 |
| Legal Services | 42,282 | 36,007 | 39,001 | 46,277 | 51,191 | 59,757 |
| Educational Services | 18,349 | 18,413 | 19,204 | 18,194 | 19,270 | 19,925 |
| Social Services | 30,728 | 32,279 | 38,444 | 39,547 | 35,911 | 38,822 |
| Museums, Botanical, Zoological Gardens | 231 | 272 | 382 | 455 | 548 | 762 |
| Membership Organizations | 53,572 | 61,883 | 65,533 | 65,639 | 68,509 | 74,723 |
| Miscellaneous Services | 67,159 | 66,121 | 72,502 | 80,453 | 77,912 | 83,066 |

## TABLE IV - 3
(cont.)

| Labor Income by Industry | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Government & Government Enterprises: | 815,438 | 888,251 | 953,697 | 1,028,129 | 1,104,325 | 1,188,240 |
| Federal, Civilian | 221,649 | 241,491 | 257,806 | 278,354 | 282,249 | 298,500 |
| Military | 72,873 | 74,175 | 74,851 | 81,541 | 88,237 | 93,313 |
| State & Local | 520,916 | 572,585 | 621,040 | 668,434 | 733,839 | 796,427 |

(D) - Not disclosed to avoid disclosure of individual firms which may dominate an industrial sector.
(L) - Less than $50,000.

[1] Total personal income less farm earnings equals nonfarm personal income.
[2] Midyear population estimates of the Bureau of the Census (excl. US gov't employees stationed outside the US.)
[3] Labor income consists of wage and salary disbursements, other labor income, and proprietors' income.
[4] Includes the capital consumption adjustment for rental income of persons.
[5] Includes the inventory valuation and capital consumption adjustments. Proprietors are self-employed persons.
[6] Includes fishing, hunting and trapping.

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished, August 1984, and Keegan, Jackson and Johnson, Montana's Forest Products Industry, 1983, p. 71 for 1981 lumber and wood products.

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# FIGURE IV-2
# MONTANA LABOR INCOME
## 1978-1983

**Figure IV-2a**

Farm Labor Income

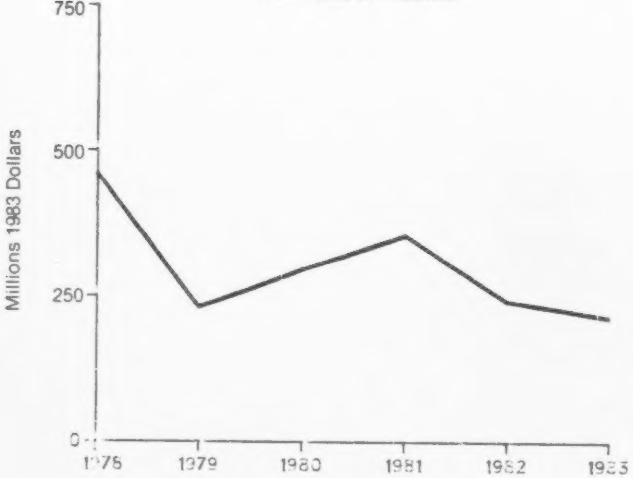


**Figure IV-2b**

Farm Proprietors Income

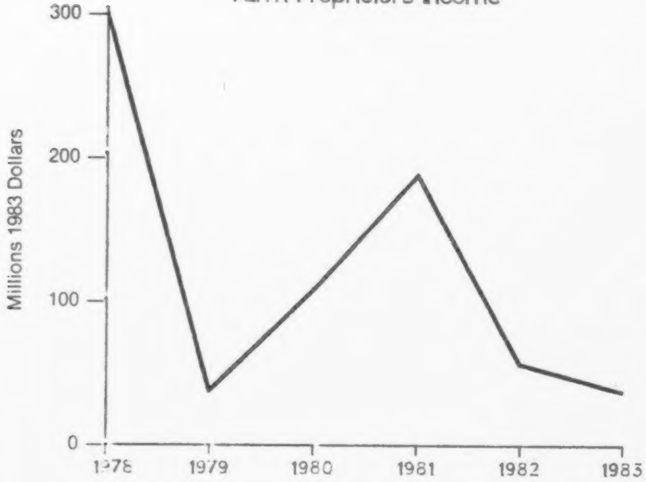
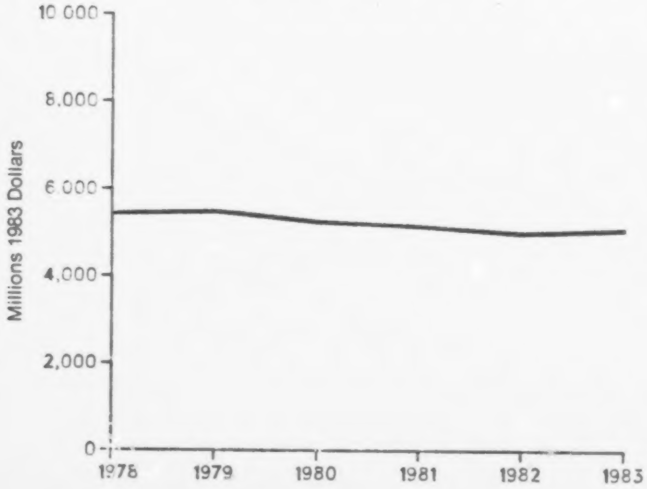


**Figure IV-2c**

Nonfarm Labor Income



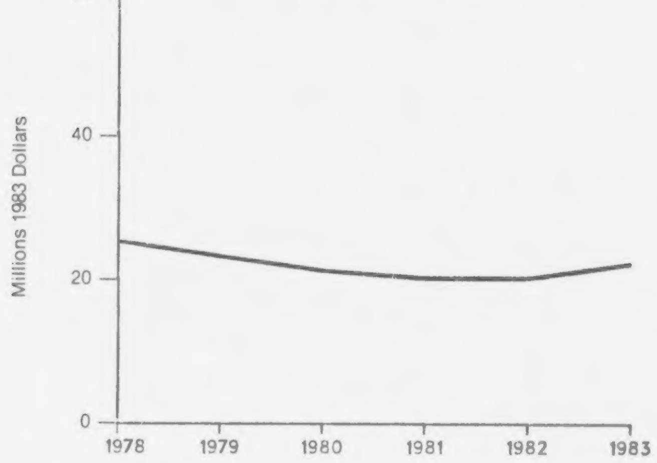
*Source: U.S. Bureau of Economic Analysis.*

## Figure IV-2 (continued)

## MONTANA LABOR INCOME
## 1978-1983

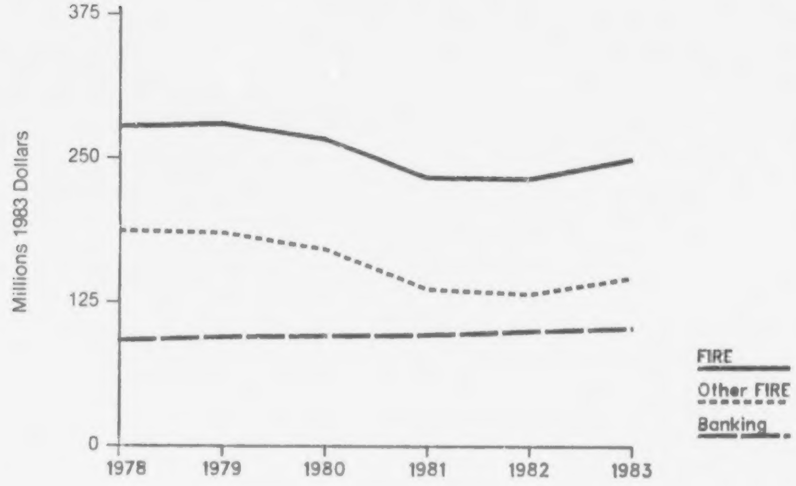
### Figure IV-2d

Ag. Services, Forestry,
Fishery
Labor Income



### Figure IV-2e

Finance, Insurance, & Real Estate
Labor Income



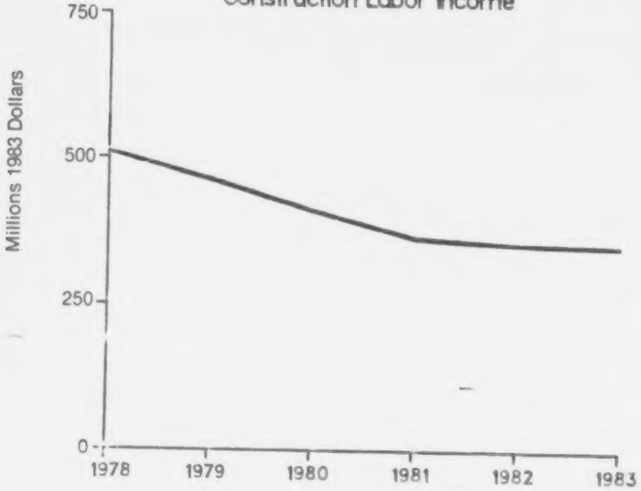
*Source: U.S. Bureau of Economic Analysis.*

## Figure IV-2 (continued)

## MONTANA LABOR INCOME
## 1978-1983

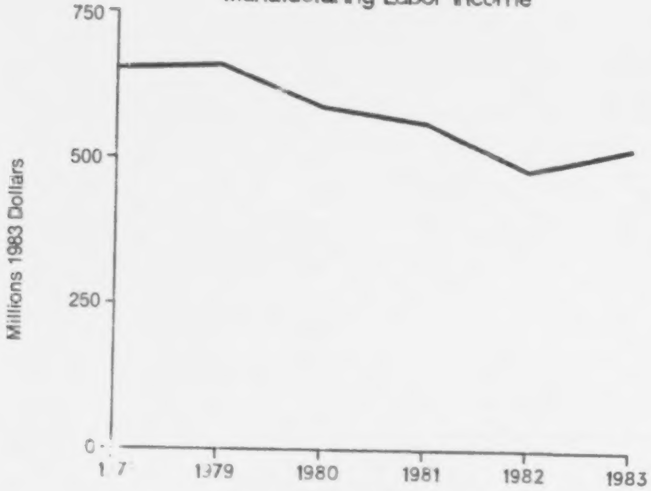
### Figure IV-2f

Construction Labor Income



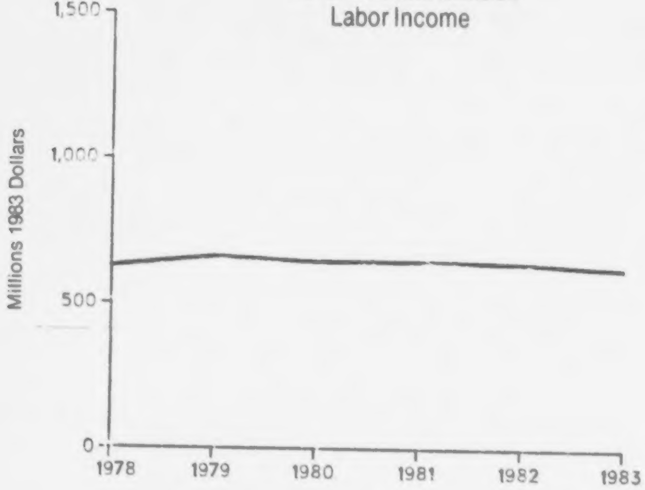
### Figure IV-2g

Manufacturing Labor Income



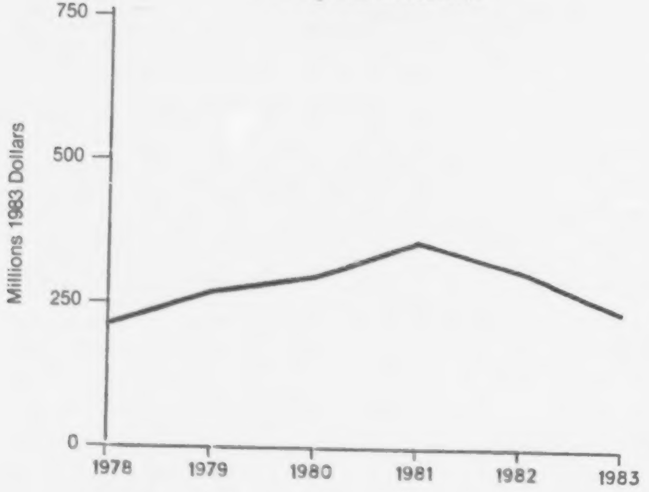
### Figure IV-2h

Trans. & Public Utilities
Labor Income



### Figure IV-2i

Mining Labor Income



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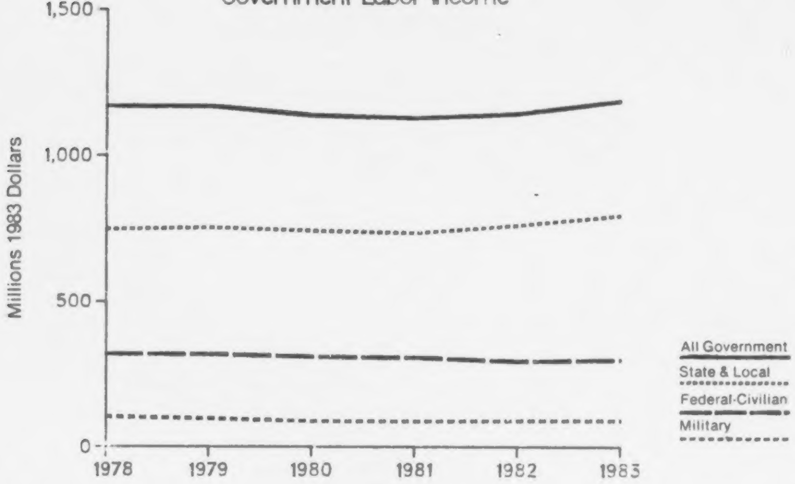
*Source: U.S. Bureau of Economic Analysis.*

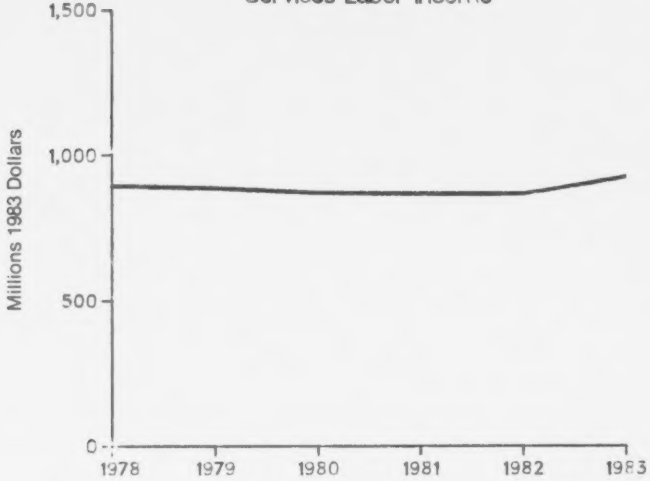
## Figure IV-2 (continued)

## MONTANA LABOR INCOME
1978-1983

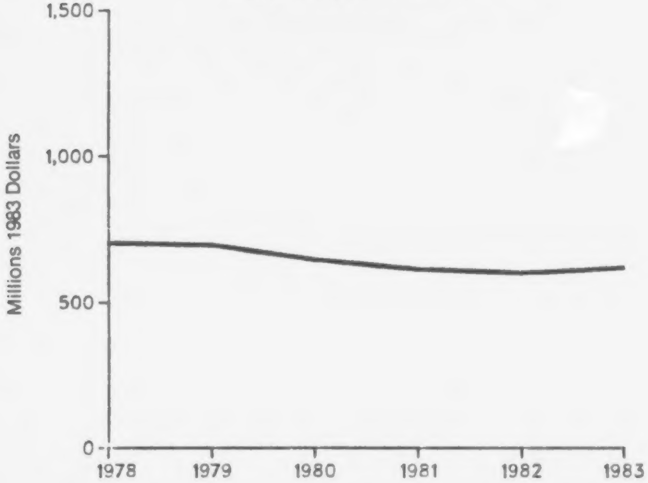
### Figure IV-2j
Government Labor Income



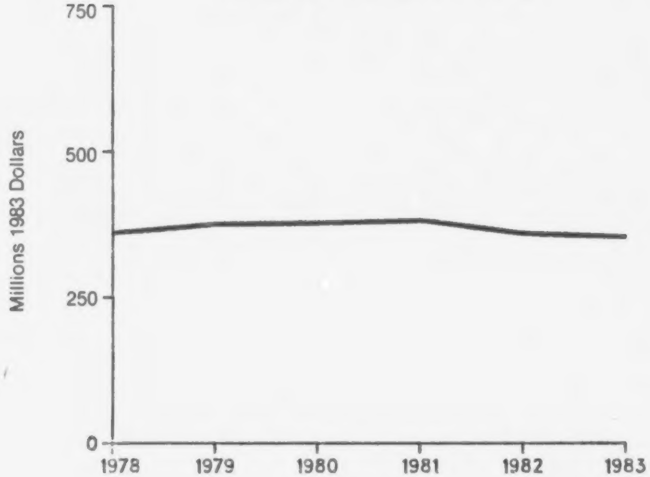
### Figure IV-2k
Services Labor Income



### Figure IV-2l
Retail Trade Labor Income



### Figure IV-2m
Wholesale Trade Labor Income



*Source: U.S. Bureau of Economic Analysis.*

## TABLE IV - 4

### MONTANA LABOR INCOME BY INDUSTRY: 1978 - 1983
(thousands of constant 1983 dollars)

| Item | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Total Personal Income: | $7,866,561 | $7,826,914 | $7,846,690 | $8,087,400 | $8,026,169 | $8,123,988 |
| Nonfarm Personal Income | 7,406,841 | 7,596,799 | 7,550,560 | 7,732,947 | 7,784,518 | 7,909,821 |
| Farm Income | 459,720 | 230,115 | 296,131 | 354,453 | 241,651 | 214,167 |
| Population (to nearest 1,000) | 782,000 | 787,000 | 788,000 | 796,000 | 805,000 | 815,000 |
| Per Capita Personal Income, MT | $10,060 | $ 9,945 | $ 9,958 | $10,160 | $9,970 | $9,968 |
| Per Capita Personal Income, US | 11,134 | 11,371 | 11,329 | 11,579 | 11,523 | 11,685 |
| MT/US Per Capita Personal Income | 90.3% | 87.5% | 87.9% | 87.8% | 86.5% | 85.3% |
| Labor Income by Industry: | | | | | | |
| Farm | $ 459,720 | $ 230,115 | $ 296,131 | $ 354,453 | $ 241,651 | $ 214,167 |
| Nonfarm | 5,419,049 | 5,467,549 | 5,243,722 | 5,157,256 | 4,993,265 | 5,077,100 |
| Private: | | | | | | |
| Ag. Serv., For., Fish. | 25,073 | 22,964 | 21,173 | 20,257 | 20,451 | 22,197 |
| Mining | 208,931 | 265,540 | 292,972 | 354,100 | 304,931 | 234,823 |
| Construction | 508,728 | 462,698 | 410,191 | 363,697 | 354,271 | 351,361 |
| Manufacturing | 652,009 | 658,336 | 586,429 | 559,266 | 478,842 | 518,492 |
| Trans. & Public Utilities | 627,348 | 661,269 | 642,731 | 644,767 | 638,978 | 622,143 |
| Wholesale Trade | 359,680 | 375,305 | 376,704 | 380,551 | 358,530 | 353,458 |
| Retail Trade | 701,788 | 693,236 | 644,152 | 610,817 | 599,245 | 618,436 |
| Finance, Ins. & Real Estate | 273,119 | 274,995 | 261,681 | 229,131 | 227,827 | 244,538 |
| Banking | 89,556 | 92,658 | 94,076 | 95,059 | 98,121 | 100,698 |
| Other Fin., Ins. Real Est. | 183,563 | 182,337 | 167,606 | 134,072 | 129,706 | 143,840 |
| Services | 894,180 | 885,634 | 869,647 | 865,579 | 865,123 | 923,412 |
| Govt. & Govt. Enterprises | 1,168,193 | 1,167,572 | 1,138,043 | 1,129,092 | 1,145,067 | 1,188,240 |
| Federal, Civilian | 317,553 | 317,431 | 307,639 | 305,689 | 292,662 | 298,500 |
| Military | 104,398 | 97,500 | 89,319 | 89,329 | 91,492 | 93,313 |
| State & Local | 746,262 | 752,641 | 741,085 | 734,075 | 760,913 | 796,427 |

Implicit price deflator for personal consumption expenditures used for constant dollars.

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished, August 1984. Constant dollar calculations by Census & Economic Information Center, Montana Dept. of Commerce, October, 1984.

## TABLE IV - 5

## AGRICULTURAL INCOME IN MONTANA: 1978 - 1983

| | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| | (in thousands of current dollars) | | | | | |
| Farm Income, by Place of Residence | $320,900 | $175,064 | $248,162 | $322,758 | $233,053 | $214,167 |
| Farm Proprietors' Income | $206,282 | $28,224 | $89,282 | $168,430 | $53,466 | $36,658 |
| | (in thousands of constant 1983 dollars) | | | | | |
| Farm Income, by Place of Residence | $459,720 | $230,115 | $296,130 | $354,453 | $241,651 | $214,167 |
| Farm Proprietors' Income | $295,519 | $37,099 | $106,540 | $184,970 | $55,439 | $36,658 |

NOTE: Farm income includes both proprietors' (self-employed) and wage earners' income. Implicit price deflators for personal consumption expenditures used to calculate constant 1983 dollars.

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished data, August 1984. Constant dollars calculated by Census & Economic Information Center, Montana Dept. of Commerce.

### TABLE IV - 6

### MONTANA NONFARM PROPRIETORS' INCOME: 1978 - 1983
(in thousands of dollars)

| Year | Current Dollars | Constant 1983 Dollars |
|---|---|---|
| 1978 | $458,365 | $656,651 |
| 1979 | 447,072 | 587,658 |
| 1980 | 391,933 | 467,692 |
| 1981 | 313,615 | 344,413 |
| 1982 | 262,313 | 271,990 |
| 1983 | 300,523 | 300,523 |

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished data, 1984. Constant income calculations by the Census and Economic Information Center, Montana Dept. of Commerce, September 1984. GNP implicit price deflator for consumption used to calculate constant dollars.

## TABLE IV - 7

## MONTANA NONFARM PROPRIETORS' INCOME: 1978 - 1983
(in thousands of current dollars)

| | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Agri. Serv., For., Fish., & Other | $ 7,909 | $ 7,048 | $ 6,502 | $ 4,897 | $ 4,187 | $ 4,682 |
| Mining | 3,140 | 27,643 | 26,809 | 21,232 | 23,658 | 8,706 |
| Construction | 96,055 | 83,768 | 59,931 | 46,997 | 37,000 | 49,500 |
| Manufacturing | 20,143 | 19,142 | 15,282 | 13,292 | 6,633 | 8,284 |
| Transportation & Public Utilities | 31,384 | 30,273 | 29,071 | 30,482 | 34,716 | 42,677 |
| Wholesale Trade | 20,634 | 19,794 | 18,425 | 19,201 | 17,212 | 17,682 |
| Retail Trade | 74,220 | 25,945 | 67,891 | 48,506 | 41,346 | 46,036 |
| Finance, Insur., & Real Estate | 43,397 | 43,089 | 32,552 | 4,709 | (5,744) | (977) |
| Total Services: | 161,483 | 140,370 | 135,470 | 124,299 | 103,316 | 123,953 |
| Business Services | 43,345 | 56,148 | 51,496 | 33,621 | 21,181 | 27,238 |
| Professional, Social & Related | 108,138 | 84,222 | 83,974 | 90,678 | 82,135 | 96,715 |
| TOTAL NONFARM PROPRIETORS' INCOME | $458,365 | $447,072 | $391,933 | $313,615 | $262,313 | $300,523 |

NOTE: Proprietors are self-employed persons.

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished data, August 1984.

## TABLE IV - 8

### MONTANA NONFARM PROPRIETORS' INCOME: 1978 - 1983
(in thousands of constant 1983 dollars)

| | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Agri. Serv., For., Fish., & Other | $ 11,330 | $ 9,264 | $ 7,759 | $ 5,378 | $ 4,341 | $ 4,682 |
| Mining | 4,498 | 36,366 | 31,991 | 23,328 | 24,531 | 8,706 |
| Construction | 137,608 | 110,110 | 71,515 | 51,612 | 38,365 | 49,500 |
| Manufacturing | 28,857 | 25,161 | 18,236 | 14,586 | 6,878 | 8,284 |
| Transportation & Public Utilities | 44,961 | 39,793 | 34,690 | 33,475 | 35,997 | 42,677 |
| Wholesale Trade | 29,560 | 26,018 | 21,986 | 21,087 | 17,847 | 17,682 |
| Retail Trade | 106,327 | 99,827 | 81,014 | 53,269 | 42,871 | 46,036 |
| Finance, Insur., & Real Estate | 62,170 | 56,639 | 38,844 | 5,171 | -5,967 | -977 |
| Total Services: | 231,340 | 184,511 | 161,656 | 136,505 | 107,128 | 123,953 |
| Business Services | 76,422 | 73,804 | 61,450 | 36,923 | 21,962 | 27,238 |
| Professional, Social & Related | 154,918 | 110,707 | 100,206 | 99,583 | 85,165 | 96,715 |
| TOTAL NONFARM PROPRIETORS' INCOME | $656,652 | $587,659 | $467,692 | $344,412 | $271,991 | $300,523 |

NOTE: Proprietors are self-employed persons.

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished data, August 1984.

## TABLE IV - 9

## MONTANA FAMILIES BY INCOME: 1959, 1969 & 1979
(current dollars)

| Group | 1959 Dollars | 1959 Percent | 1969 Dollars | 1969 Percent | 1979 Dollars | 1979 Percent |
|---|---|---|---|---|---|---|
| All Families | 165,777 | 100.0 | 171,812 | 100.0 | 207,525 | 100.0 |
| Less than $5,000 | 73,467 | 44.3 | 37,870 | 22.0 | 14,918 | 7.2 |
| $5,000 - $9,999 | 73,260 | 44.2 | 67,867 | 39.5 | 29,746 | 14.3 |
| $10,000 - $14,999 | 13,790 | 8.3 | 42,564 | 24.8 | 34,648 | 16.7 |
| $15,000 - $24,999 | 4,008 | 2.4 | 18,440 | 10.7 | 67,706 | 32.6 |
| $25,000 - $49,999 | 1,252* | 0.8* | 4,159 | 2.4 | 52,802 | 25.4 |
| $50,000 & Over | (NA) | (NA) | 912 | 0.5 | 7,705 | 3.7 |
| Median Family Income | 5,403 | (X) | 8,512 | (X) | 18,413 | (X) |

* Tabulated as $25,000 or more in 1959.

SOURCE: U.S. Bureau of the Census, Census of Population: 1970 & 1980, Computer Tapes; 1960, V.1, Pt.28.

# Table IV-10

## Economic Characteristics for American Indian Persons on Reservations: 1980

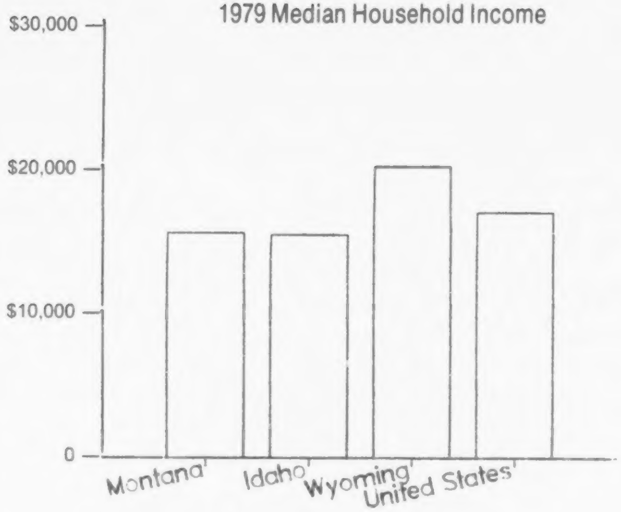
| Reservations | Percent in labor force | | | | | Families | | Median income in 1979 (dollars) | | | | Income in 1979 below poverty level | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Female, 16 years and over | | | | | | | Families | | | Persons for whom poverty status is determined | | Families | |
| | Male, 16 years and over | Total | With own children under 6 years | Non-workers per 100 workers | Civilian labor force—Percent unemployed | Total | Percent with no workers in 1979 | Households | Total | Female householder, no husband present | Per capita income in 1979 (dollars) | Total | Percent | Total | Female householder, no husband present |
| Blackfeet Reservation, Mont | 71.1 | 53.4 | 53.3 | 160 | 14.7 | 1 079 | 9.1 | 10 471 | 11 543 | 10 360 | 3 293 | 1 838 | 36.7 | 315 | 88 |
| Glacier County (pt.) | 72.9 | 53.5 | 51.7 | 155 | 14.3 | 984 | 9.0 | 10 385 | 11 439 | 10 508 | 3 369 | 1 559 | 34.9 | 275 | 81 |
| Pondera County (pt.) | 57.5 | 52.7 | 71.4 | 207 | 18.4 | 95 | 9.5 | 15 000 | 17 716 | 3 750 | 2 666 | 279 | 50.8 | 40 | 7 |
| Crow Reservation, Mont | 64.3 | 45.8 | 46.1 | 198 | 35.2 | 719 | 3.2 | 13 992 | 15 160 | 9 773 | 3 011 | 1 348 | 33.1 | 213 | 72 |
| Big Horn County (pt.) | 64.2 | 45.9 | 46.7 | 198 | 35.3 | 701 | 3.3 | 13 992 | 15 160 | 10 156 | 3 006 | 1 288 | 32.4 | 204 | 68 |
| Yellowstone County (pt.) | 70.0 | 41.4 | - | 206 | 30.3 | 18 | - | 17 500 | 17 500 | 3 750 | 3 215 | 60 | 59.4 | 9 | 4 |
| Flathead Reservation, Mont | 63.0 | 44.8 | 58.1 | 188 | 20.2 | 688 | 17.0 | 10 439 | 10 826 | 4 247 | 3 129 | 1 401 | 40.5 | 237 | 149 |
| Flathead County (pt.) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Lake County (pt.) | 62.4 | 46.2 | 59.4 | 183 | 20.1 | 606 | 17.2 | 10 313 | 10 650 | 4 190 | 3 179 | 1 320 | 42.6 | 211 | 142 |
| Missoula County (pt.) | 62.7 | 36.2 | 100.0 | 269 | 27.1 | 59 | 18.6 | 11 319 | 12 014 | 4 821 | 2 326 | 47 | 15.0 | 15 | 7 |
| Sanders County (pt.) | 91.3 | - | - | 124 | - | 23 | 8.7 | 5 625 | 5 625 | - | 5 179 | 34 | 73.9 | 11 | - |
| Fort Belknap Reservation, Mont | 46.4 | 47.7 | 33.3 | 245 | 8.9 | 353 | 20.4 | 6 486 | 8 011 | 5 156 | 2 455 | 802 | 47.0 | 149 | 67 |
| Blaine County (pt.) | 47.3 | 48.2 | 33.3 | 241 | 9.1 | 329 | 19.5 | 6 297 | 7 557 | 5 234 | 2 416 | 786 | 48.1 | 141 | 59 |
| Phillips County (pt.) | - | 41.7 | - | 367 | - | 24 | 33.3 | 15 625 | 11 429 | 4 844 | 3 376 | 16 | 22.9 | 8 | 8 |
| Fort Peck Reservation, Mont | 65.6 | 48.9 | 54.0 | 197 | 25.2 | 954 | 7.7 | 11 516 | 11 500 | 7 500 | 3 268 | 1 478 | 33.7 | 256 | 126 |
| Daniels County (pt.) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Roosevelt County (pt.) | 67.3 | 48.5 | 57.4 | 191 | 26.6 | 851 | 7.8 | 11 458 | 11 286 | 7 531 | 3 378 | 1 295 | 34.2 | 228 | 116 |
| Sheridan County (pt.) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Valley County (pt.) | 53.8 | 51.7 | 20.0 | 242 | 14.9 | 103 | 6.8 | 12 344 | 13 750 | 2500— | 2 558 | 183 | 30.8 | 28 | 10 |
| Northern Cheyenne Reservation, Mont | 53.8 | 56.1 | 65.1 | 233 | 15.7 | 612 | 17.5 | 8 304 | 9 336 | 5 375 | 2 512 | 1 238 | 41.8 | 255 | 116 |
| Big Horn County (pt.) | 49.1 | 70.8 | 72.0 | 191 | 13.9 | 154 | 24.0 | 11 111 | 11 852 | 5 694 | 2 944 | 191 | 26.6 | 49 | 14 |
| Rosebud County (pt.) | 55.1 | 50.5 | 62.2 | 250 | 16.4 | 458 | 15.3 | 7 521 | 8 458 | 5 238 | 2 373 | 1 047 | 46.7 | 206 | 102 |
| Rocky Boy's Reservation, Mont | 54.1 | 37.5 | 47.2 | 289 | 11.3 | 256 | 4.7 | 15 032 | 15 156 | 7 292 | 2 902 | 515 | 35.6 | 78 | 39 |
| Chouteau County (pt.) | 76.6 | 26.8 | - | 189 | - | 26 | - | 8 750 | 9 643 | 6 250 | 2 459 | 37 | 27.2 | 7 | 7 |
| Hill County (pt.) | 51.2 | 38.7 | 50.4 | 304 | 13.0 | 230 | 5.2 | 15 645 | 15 729 | 8 125 | 2 948 | 478 | 36.5 | 71 | 32 |
| Other reservation lands in Montana | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Big Horn County (pt.) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Source: U.S. Bureau of the Census, 1980 Census, General Social and Economic Characteristics, Montana. Table 193.

# FIGURE IV-3
# MONTANA INCOME, WITH COMPARISONS
## 1979

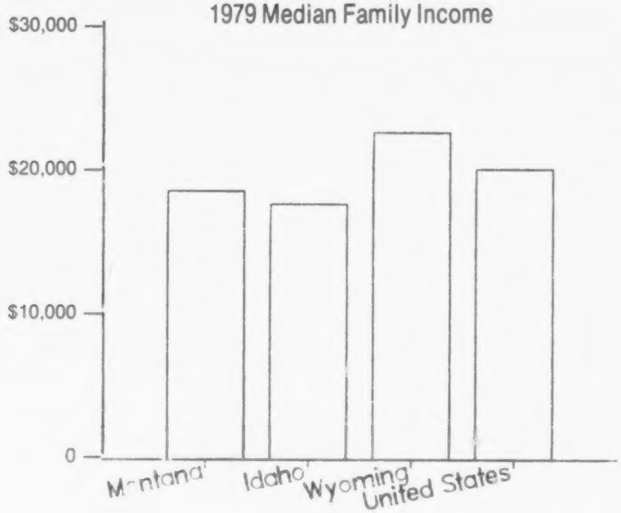
### Figure IV-3a

1979 Median Household Income



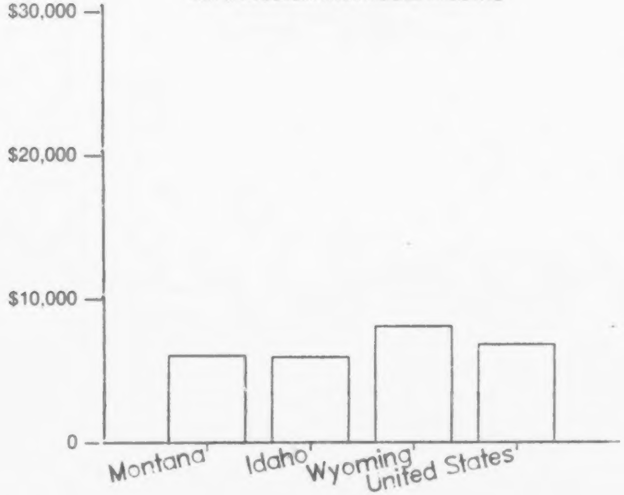
### Figure IV-3b

1979 Median Family Income



### Figure IV-3c

1979 Median Individual Income



*Source: U.S. Bureau of The Census.*

# TABLE IV - 11

## MONTANA MEAN ANNUAL INCOME IN 1969 BY AGE, SEX, & YEAR OF SCHOOL COMPLETED: 1970

| Group | Total | Elementary | High School | | College | | |
|---|---|---|---|---|---|---|---|
| | | 8 Yrs | 1-3 Yrs | 4 Yrs | 1-3 Yrs | 4 Yrs | 5+ |
| Total 18 Yrs & Over: | | | | | | | |
| Males w/Income | 211,813 | 33,674 | 32,708 | 63,390 | 32,242 | 13,683 | 11,203 |
| Mean Income | $6,866 | $5,782 | $5,969 | $7,254 | $6,457 | $10,014 | $12,164 |
| Females w/Income | 146,991 | 17,482 | 23,054 | 52,711 | 28,454 | 11,364 | 3,684 |
| Mean Income | $2,706 | $1,918 | $2,053 | $2,704 | $2,885 | $4,616 | $6,062 |
| Total 18-24 Yrs: | | | | | | | |
| Males w/Income | 34,778 | 793 | 6,090 | 13,942 | 11,257 | 1,654 | 472 |
| Mean Income | $3,040 | $3,063 | $2,256 | $3,407 | $2,878 | $3,686 | $4,723 |
| Females w/Income | 28,065 | 362 | 4,509 | 12,328 | 8,711 | 1,615 | 235 |
| Mean Income | $1,790 | $1,275 | $1,155 | $1,800 | $1,774 | $3,503 | $3,463 |
| Total 25-34 Yrs: | | | | | | | |
| Males w/Income | 39,316 | 1,963 | 5,011 | 15,905 | 7,377 | 4,428 | 3,721 |
| Mean Income | $7,459 | $6,122 | $6,773 | $7,500 | $7,074 | $8,622 | $8,853 |
| Females w/Income | 22,149 | 886 | 3,510 | 9,719 | 3,955 | 2,803 | 795 |
| Mean Income | $2,716 | $1,760 | $2,039 | $2,455 | $2,709 | $4,423 | $4,648 |
| Total 35-44 Yrs: | | | | | | | |
| Males w/Income | 36,658 | 4,536 | 5,979 | 14,161 | 4,502 | 2,839 | 3,083 |
| Mean Income | $9,260 | $7,573 | $7,849 | $9,192 | $9,390 | $12,677 | $13,124 |
| Females w/Income | 21,674 | 1,509 | $3,630 | 9,589 | 3,743 | 1,897 | 671 |
| Mean Income | $3,069 | $2,136 | $2,411 | $2,966 | $3,256 | $4,348 | $6,345 |
| Total 45-54 Yrs: | | | | | | | |
| Males w/Income | 38,454 | 6,959 | 6,400 | 13,928 | 4,320 | 2,352 | 2,160 |
| Mean Income | $9,051 | $7,173 | $7,425 | $9,075 | $10,300 | $13,197 | $16,297 |
| Females w/Income | 23,167 | 2,549 | 3,344 | 9,615 | 4,379 | 1,769 | 728 |
| Mean Income | $3,647 | $2,558 | $2,621 | $3,481 | $4,325 | $5,684 | $6,933 |
| Total 55-64 Yrs: | | | | | | | |
| Males w/Income | 31,547 | 8,835 | 5,307 | 7,851 | 2,736 | 1 402 | 1,118 |
| Mean Income | $7,599 | $6,412 | $6,878 | $8,014 | $9,042 | $12 401 | $16,763 |
| Females w/Income | 20,186 | 3,551 | 3,247 | 6,059 | 3,447 | 1,630 | 739 |
| Mean Income | $3,434 | $2,132 | $2,428 | $3,580 | $3,915 | $6,022 | $7,682 |
| Total 65 & Over: | | | | | | | |
| Males w/Income | 31,060 | 10,588 | 3,921 | 3,603 | 2,050 | 1,008 | 649 |
| Mean Income | $4,123 | $3,714 | $4,234 | $4,744 | $5,905 | $8,263 | $10,315 |
| Females w/Income | 31,750 | 8,625 | 4,814 | 5,401 | 4,219 | 1,650 | 516 |
| Mean Income | $2,113 | $1,646 | $1,988 | $2,385 | $2,682 | $3,810 | $5,509 |

SOURCE: U.S. Bureau of the Census, 1970 Census, Characteristics of the Population, Montana, Table 197.

## TABLE IV - 12

## MONTANA MEAN ANNUAL INCOME IN 1979 BY AGE, SEX, YEAR OF SCHOOL COMPLETED, & RACE: 1980

| | | Elementary | High School | | College | | | |
|---|---|---|---|---|---|---|---|---|
| Group | Total | 8 Yrs | 1-3 Yrs | 4 Yrs | 1-3 Yrs | 4 Yrs | 5 & 6 | 7+ |
| Total 18 Yrs & Over: | | | | | | | | |
| Males w/Income | 266,610 | 24,424 | 31,596 | 101,375 | 50,703 | 24,454 | 13,660 | 8,258 |
| Mean Income | $14,256 | $11,203 | $11,161 | $14,074 | $13,754 | $18,733 | $19,078 | $27,461 |
| Females w/Income | 220,805 | 15,640 | 26,845 | 89,463 | 28,838 | 22,040 | 8,875 | 1,569 |
| Mean Income | $6,101 | $4,301 | $4,588 | $5,829 | $6,424 | $8,199 | $10,329 | $12,377 |
| Total 18-24 Yrs: | | | | | | | | |
| Males w/Income | 49,727 | 754 | 8,814 | 24,819 | 12,564 | 1,948 | 480 | 2 |
| Mean Income | $7,209 | $5,929 | $4,953 | $8,221 | $6,730 | $8,408 | $7,490 | $5,255 |
| Females w/Income | 43,396 | 473 | 6,150 | 21,044 | 12,376 | 2,664 | 394 | 5 |
| Mean Income | $4,242 | $3,083 | $2,823 | $4,349 | $4,278 | $6,334 | $6,993 | $6,525 |
| Total 25-34 Yrs: | | | | | | | | |
| Males w/Income | 66,265 | 985 | 3,890 | 23,790 | 18,295 | 10,920 | 5,334 | 2,432 |
| Mean Income | $14,438 | $10,540 | $12,681 | $14,409 | $13,622 | $15,474 | $15,253 | $19,941 |
| Females w/Income | 49,175 | 394 | 3,232 | 18,844 | 13,282 | 8,977 | 3,390 | 516 |
| Mean Income | $6,588 | $4,424 | $4,682 | $5,921 | $6,387 | $8,027 | $8,952 | $11,745 |
| Total 35-44 Yrs: | | | | | | | | |
| Males w/Income | 43,970 | $1,985 | 3,855 | 17,542 | 7,873 | 5,227 | 3,919 | 2,581 |
| Mean Income | $19,055 | $14,516 | $15,819 | $17,456 | $18,836 | $22,511 | $21,450 | $30,772 |
| Females w/Income | 32,615 | 914 | 3,641 | 14,757 | 6,734 | 3,711 | 1,918 | 427 |
| Mean Income | $7,133 | $5,049 | $5,870 | $6,497 | $7,409 | $8,448 | $11,027 | $14,558 |
| Total 45-54 Yrs: | | | | | | | | |
| Males w/Income | 35,631 | 3,768 | 5,073 | 14,285 | 4,632 | 2,981 | 1,858 | 1,581 |
| Mean Income | $19,868 | $15,469 | $16,924 | $18,966 | $20,320 | $27,335 | $25,335 | $32,357 |
| Females w/Income | 25,915 | 1,616 | 3,267 | 12,068 | 5,080 | 2,099 | 978 | 231 |
| Mean Income | $7,619 | $4,905 | $5,845 | $7,413 | $8,404 | $9,551 | $12,950 | $12,735 |
| Total 55-64 Yrs: | | | | | | | | |
| Males w/Income | 34,746 | 6,234 | 4,828 | 13,060 | 4,204 | 1,965 | 1,334 | 1,107 |
| Mean Income | $17,285 | $13,834 | $13,920 | $17,057 | $19,843 | $25,532 | $24,170 | $31,617 |
| Females w/Income | 26,578 | 2,852 | 3,781 | 11,428 | 4,681 | 1,790 | 1,110 | 156 |
| Mean Income | $6,923 | $4,663 | $5,262 | $6,570 | $8,121 | $10,225 | $12,440 | $14,458 |
| Total 65 & Over: | | | | | | | | |
| Males w/Income | 36,271 | 10,698 | 5,106 | 7,879 | 3,135 | 1,413 | 735 | 555 |
| Mean Income | $9,355 | $7,985 | $8,840 | $10,155 | $12,047 | $16,581 | $16,700 | $22,854 |
| Females w/Income | 43,126 | 9,391 | 6,774 | 11,322 | 6,685 | 2,810 | 1,085 | 234 |
| Mean Income | $5,219 | $4,071 | $4,475 | $5,117 | $6,786 | $7,889 | $10,087 | $8,175 |

## TABLE IV - 12
(cont.)

| (White) | Total | Elementary 8 Yrs | High School 1-3 Yrs | High School 4 Yrs | College 1-3 Yrs | College 4 Yrs | College 5 & 6 | College 7+ |
|---|---|---|---|---|---|---|---|---|
| Total 18 Yrs & Over: | | | | | | | | |
| Males w/Income | 255,104 | 23,322 | 29,191 | 97,379 | 48,684 | 24,109 | 13,390 | 8,108 |
| Mean Income | $14,485 | $11,330 | $11,475 | $14,244 | $13,906 | $18,841 | $19,156 | $27,594 |
| Females w/Income | 210,181 | 14,602 | 24,594 | 85,666 | 46,944 | 21,588 | 8,726 | 1,509 |
| Mean Income | $6,170 | $4,237 | $4,648 | $5,875 | $6,445 | $8,234 | $10,363 | $12,476 |
| White 18-24 Yrs: | | | | | | | | |
| Males w/Income | 46,690 | 573 | 7,919 | 23,568 | 11,997 | 1,884 | 480 | 2 |
| Mean Income | $7,371 | $6,480 | $5,173 | $8,360 | $6,780 | $8,486 | $7,490 | $5,255 |
| Females w/Income | 40,703 | 341 | 5,410 | 19,742 | 11,946 | 2,619 | 394 | -- |
| Mean Income | $4,303 | $3,205 | $2,863 | $4,401 | $4,296 | $6,345 | $6,993 | -- |
| White 25-34 Yrs: | | | | | | | | |
| Males w/Income | 62,926 | 829 | 3,240 | 22,545 | 17,466 | 10,721 | 5,219 | 2,359 |
| Mean Income | $14,649 | $10,841 | $13,494 | $14,600 | $13,775 | $15,546 | $15,266 | $20,193 |
| Females w/Income | 46,297 | 291 | 2,769 | 17,711 | 12,555 | 8,791 | 3,318 | 503 |
| Mean Income | $6,691 | $4,405 | $4,783 | $5,973 | $6,456 | $8,083 | $9,018 | $11,635 |
| White 35-44 Yrs: | | | | | | | | |
| Males w/Income | 41,997 | 1,789 | 3,553 | 16,827 | 7,499 | 5,203 | 3,825 | 2,523 |
| Mean Income | $19,330 | $15,142 | $16,267 | $17,598 | $19,014 | $22,550 | $21,649 | $30,813 |
| Females w/Income | 30,705 | 764 | 3,240 | 14,080 | 6,392 | 3,579 | 1,882 | 413 |
| Mean Income | $7,213 | $5,392 | $5,977 | $6,542 | $7,345 | $8,505 | $11,050 | $14,806 |
| White 45-54 Yrs: | | | | | | | | |
| Males w/Income | 34,485 | 3,569 | 4,871 | 13,905 | 4,458 | 2,950 | 1,832 | 1,569 |
| Mean Income | $20,136 | $15,704 | $17,020 | $19,075 | $20,690 | $27,483 | $25,392 | $32,399 |
| Females w/Income | 24,648 | 1,369 | 3,048 | 11,728 | 4,871 | 2,018 | 950 | 220 |
| Mean Income | $7,709 | $4,872 | $5,838 | $7,461 | $8,435 | $9,627 | $13,049 | $12,697 |
| White 55-64 Yrs: | | | | | | | | |
| Males w/Income | 33,805 | 6,046 | 4,620 | 12,811 | 4,159 | 1,945 | 1,326 | 1,100 |
| Mean Income | $17,479 | $13,869 | $14,140 | $17,188 | $19,881 | $25,610 | $24,274 | $31,660 |
| Females w/Income | 25,711 | 2,691 | 3,560 | 11,227 | 4,554 | 1,787 | 1,097 | 151 |
| Mean Income | $6,992 | $4,677 | $5,315 | $6,586 | $8,172 | $10,233 | $12,408 | $14,893 |
| White 65 & Over: | | | | | | | | |
| Males w/Income | 35,302 | 10,516 | 4,988 | 7,723 | 3,105 | 1,406 | 708 | 555 |
| Mean Income | $9,468 | $8,039 | $8,872 | $10,267 | $12,094 | $16,617 | $16,555 | $22,854 |
| Females w/Income | 42,117 | 9,146 | 6,567 | 11,178 | 6,626 | 2,794 | 1,085 | 222 |
| Mean Income | $5,240 | $4,104 | $4,493 | $5,107 | $6,780 | $7,850 | $10,087 | $8,187 |

## TABLE IV - 12
(cont.)

| (American Indian) | Total | Elementary 8 Yrs | High School 1-3 Yrs | High School 4 Yrs | College 1-3 Yrs | College 4 Yrs | College 5 & 6 | College 7+ |
|---|---|---|---|---|---|---|---|---|
| Total 18 Yrs & Over: | | | | | | | | |
| Males w/Income | 9,076 | 932 | 2,118 | 3,141 | 1,555 | 159 | 178 | 56 |
| Mean Income | $8,871 | $8,487 | $7,132 | $9,876 | $10,084 | $12,431 | $14,993 | $21,864 |
| Females w/Income | 8,777 | 878 | 1,987 | 341 | 1,542 | 335 | 59 | 47 |
| Mean Income | $4,679 | $3,852 | $3,987 | $4,744 | $6,019 | $6,172 | $10,904 | $8,706 |
| Amer. Ind. 18-24 Yrs: | | | | | | | | |
| Males w/Income | 2,299 | 147 | 804 | 883 | 375 | 17 | -- | -- |
| Mean Income | $4,182 | $2,082 | $2,799 | $5,215 | $5,636 | $4,747 | -- | -- |
| Females w/Income | 2,233 | 97 | 660 | 1,079 | 331 | 22 | -- | 5 |
| Mean Income | $3,245 | $2,152 | $2,399 | $3,485 | $4,148 | $6,746 | -- | $6,525 |
| Amer. Ind. 25-34 Yrs: | | | | | | | | |
| Males w/Income | 2,597 | 132 | 570 | 1,020 | 673 | 92 | 55 | 17 |
| Mean Income | $9,938 | $8,982 | $8,326 | $10,402 | $10,318 | $11,846 | $12,471 | $4,711 |
| Females w/Income | 2,362 | 73 | 400 | 955 | 624 | 144 | 26 | 6 |
| Mean Income | $4,899 | $4,663 | $4,153 | $5,012 | $5,347 | $5,656 | $9,149 | $12,005 |
| Amer. Ind. 35-44 Yrs: | | | | | | | | |
| Males w/Income | 1,594 | 149 | 309 | 595 | 303 | 19 | 70 | 35 |
| Mean Income | $13,072 | $9,714 | $10,778 | $14,203 | $15,576 | $12,215 | $12,487 | $30,313 |
| Females w/Income | 1,612 | 142 | 354 | 569 | 278 | 113 | 19 | 14 |
| Mean Income | $5,716 | $3,339 | $5,295 | $5,628 | $8,052 | $5,903 | $14,543 | $7,262 |
| Amer. Ind. 45-54 Yrs: | | | | | | | | |
| Males w/Income | 1,051 | 187 | 159 | 321 | 135 | 21 | 26 | 4 |
| Mean Income | $11,760 | $11,054 | $15,123 | $14,791 | $7,596 | $15,264 | $21,359 | $20,845 |
| Females w/Income | 1,016 | 236 | 198 | 258 | 151 | 43 | 8 | 5 |
| Mean Income | $5,763 | $5,204 | $6,051 | $5,453 | $8,280 | $7,456 | $13,372 | $20,165 |
| Amer. Ind. 55-64 Yrs: | | | | | | | | |
| Males w/Income | 751 | 164 | 188 | 185 | 45 | 10 | -- | -- |
| Mean Income | $10,451 | $13,295 | $9,443 | $10,772 | $16,357 | $25,338 | -- | -- |
| Females w/Income | 684 | 143 | 181 | 160 | 103 | 3 | 6 | 5 |
| Mean Income | $4,940 | $4,429 | $4,833 | $5,931 | $6,658 | $5,705 | $3,695 | $1,305 |
| Amer. Ind. 65 & Over: | | | | | | | | |
| Males w/Income | 784 | 153 | 88 | 137 | 24 | -- | 27 | -- |
| Mean Income | $5,160 | $4,729 | $8,619 | $4,492 | $5,934 | -- | $20,495 | -- |
| Females w/Income | 870 | 187 | 194 | 120 | 55 | 10 | -- | 12 |
| Mean Income | $4,365 | $2,660 | $3,765 | $6,636 | $7,221 | $10,017 | -- | $7,960 |

## TABLE IV - 13

## MONTANA MEAN WEEKLY EARNINGS OF FULL-TIME WORKERS BY SEX, AGE & EDUCATION: 1979

| | | Elementary | | High School | | College | | | |
|---|---|---|---|---|---|---|---|---|---|
| Group | Total | 0-7 Yrs | 8 Yrs | 1-3 Yrs | 4 Yrs | 1-3 Yrs | 4 Yrs | 5 & 6 | 7+ |
| Age 18 Yrs & Over: | | | | | | | | | |
| Male | $339 | $287 | $310 | $310 | $317 | $323 | $387 | $406 | $562 |
| Female | $196 | $158 | $146 | $164 | $179 | $196 | $244 | $291 | $331 |
| % Female to Male | 57.8% | 55.1% | 47.1% | 52.9% | 56.5% | 60.7% | 63.1% | 71.7% | 58.9% |
| Age 18-24 Yrs: | | | | | | | | | |
| Male | $221 | $166 | $207 | $201 | $219 | $233 | $251 | $257 | $250* |
| Female | $156 | $135 | $133 | $136 | $148 | $162 | $211 | $190 | $125* |
| % Female to Male | 70.6% | 81.3% | 64.3% | 67.7% | 67.6% | 69.5% | 84.1% | 73.9% | 50.0% |
| Age 25-34 Yrs: | | | | | | | | | |
| Male | $317 | $280 | $266 | $310 | $312 | $302 | $327 | $334 | $439 |
| Female | $201 | $166 | $159 | $159 | $178 | $193 | $239 | $263 | $279 |
| % Female to Male | 63.4% | 59.3% | 59.8% | 51.3% | 57.1% | 63.9% | 73.1% | 78.7% | 63.6% |
| Age 35-44 Yrs: | | | | | | | | | |
| Male | $387 | $309 | $335 | $347 | $356 | $373 | $426 | $426 | $600 |
| Female | $207 | $145 | $150 | $173 | $186 | $215 | $255 | $306 | $335 |
| % Female to Male | 53.5% | 46.9% | 44.9% | 49.9% | 52.2% | 57.4% | 59.9% | 71.8% | 55.8% |
| Age 45-54 Yrs: | | | | | | | | | |
| Male | $403 | $329 | $335 | $362 | $378 | $388 | $521 | $509 | $638 |
| Female | $216 | $165 | $146 | $181 | $208 | $218 | $265 | $355 | $411 |
| % Female to Male | 53.6% | 50.2% | 43.6% | 50.0% | 55.0% | 56.2% | 50.9% | 65.9% | 64.4% |
| Age 55 - 64 Yrs: | | | | | | | | | |
| Male | $378 | $320 | $323 | $324 | $360 | $404 | $496 | $517 | $625 |
| Female | $213 | $167 | $149 | $175 | $196 | $227 | $288 | $340 | $399 |
| % Female to Male | 56.4% | 52.2% | 46.1% | 54.0% | 54.4% | 56.2% | 56.1% | 65.8% | 63.8% |
| Age 65 Yrs & Over: | | | | | | | | | |
| Male | $294 | $164 | $247 | $303 | $317 | $336 | $417 | $368 | $545 |
| Female | $184 | $163 | $133 | $144 | $199 | $206 | $269 | $176 | $93 |
| % Female to Male | 62.6% | 99.4% | 53.9% | 47.5% | 62.8% | 61.3% | 64.5% | 47.8% | 17.1% |

* Figure based on extremely small base

SOURCE: U.S. Bureau of the Census, 1980 Census, Detailed Population Characteristics, Montana, Table 237.

## TABLE IV - 14

## MONTANA MEDIAN ANNUAL INCOME BY TYPE OF HOUSEHOLDER
1979

| Families | Number | Median Income |
|---|---|---|
| Total Families: | 207,525 | $18,413 |
| Married Couple Families: | 181,368 | $19,558 |
| Wife in Labor Force | 86,670 | 22,223 |
| w/children under 18 | 49,430 | 22,223 |
| w/children under 6 | 19,935 | 19,789 |
| Wife not in Labor Force | 94,698 | 16,676 |
| w/children under 18 | 46,566 | 18,371 |
| w/children under 6 | 27,059 | 16,455 |
| Married Householder, No Wife Present: | 6,205 | $16,670 |
| w/children under 18 | 2,852 | 16,302 |
| w/children under 6 | 820 | 14,261 |
| Female Householder, No Husband Present: | 19,952 | $9,157 |
| In Labor Force | 13,172 | 10,092 |
| w/children under 18 | 9,803 | 8,942 |
| w/children under 6 | 3,031 | 6,595 |
| Not in Labor Force | 6,780 | 6,864 |
| w/children under 18 | 3,318 | 4,290 |
| w/children under 6 | 1,673 | 3,310 |

SOURCE: U.S. Bureau of the Census, 1980 Census, Detailed Population Characteristics, Montana.

## TABLE IV - 15

## MONTANA SOURCE OF INCOME & PERCENTAGE OF 1980 FAMILIES RECEIVING EACH TYPE BY AGE, RACE, & SEX OF HOUSEHOLDER, & INCOME LEVEL: 1979 EARNINGS

| Group | FAMILIES | | | | FAMILIES W/FEMALE HOUSEHOLDER (NO HUSBAND PRESENT) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Age of Householder (Yrs) | | | | Age of Householder (Yrs) | | |
| | Total | 15-24 | 25-64 | 65+ | Total | 15-24 | 25-64 | 65+ |
| All Income Levels: | | | | | | | | |
| Total Families | 207,525 | 15,146 | 163,308 | 29,071 | 19,952 | 2,134 | 15,373 | 2,445 |
| Mean Family Income | $20,659 | $13,356 | $22,404 | $14,660 | $11,047 | $5,693 | $11,481 | $12,987 |
| % of Aggregate Family Income: | | | | | | | | |
| Earnings | 84.6% | 95.3% | 89.7% | 36.2% | 70.7% | 75.1% | 75.1% | 44.7% |
| Wage & Salary | 71.7%* | 90.2% | 76.1% | 25.3% | 65.8% | 74.8% | 70.2% | 38.0% |
| Self-Employment | 12.9% | 5.1% | 13.6% | 10.9% | 4.9% | 0.3% | 4.9% | 6.7% |
| Social Security | 4.5% | 0.4% | 1.6% | 31.4% | 8.7% | 3.4% | 5.7% | 27.6% |
| Public Assistance | 0.5% | 1.1% | 0.4% | 1.1% | 1.6% | 12.3% | 3.8% | 2.2% |
| Other Income | 10.4% | 3.2% | 8.3% | 31.3% | 19.0% | 9.2% | 15.4% | 25.5% |
| % Families Receiving Income of Specified Types: | | | | | | | | |
| Earnings | 90.1% | 96.4% | 96.2% | 52.3% | 84.6% | 78.0% | 88.2% | 67.3% |
| Wage & Salary | 83.3%* | 94.9% | 89.4% | 42.7% | 81.5% | 77.7% | 85.4% | 60.7% |
| Self-employment | 25.1% | 10.8% | 27.6% | 18.6% | 9.3% | 0.9% | 9.5% | 15.7% |
| Social Security | 20.4% | 2.4% | 9.8% | 89.5% | 26.1% | 6.2% | 18.8% | 89.4% |
| Public Assistance | 5.0% | 8.1% | 4.4% | 6.5% | 19.8% | 35.0% | 18.5% | 14.3% |
| Other Income | 65.9% | 38.2% | 63.2% | 95.2% | 63.8% | 32.8% | 65.2% | 82.3% |
| Income Below Poverty Level: | | | | | | | | |
| Total Families | 19,019 | 2,701 | 14,153 | 2,165 | 6,072 | 1,317 | 4,408 | 347 |
| Mean Income | $3,187 | $3,338 | $3,133 | $3,359 | $3,229 | $2,695 | $3,374 | $3,409 |
| % of Aggregate Family Income: | | | | | | | | |
| Earnings | 60.4% | 73.8% | 66.2% | 8.4% | 50.0% | 50.6% | 53.2% | 9.0% |
| Wage & Salary ** | 68.4% | 70.4% | 77.3% | 11.4% | 51.2% | 50.4% | 54.3% | 14.4% |
| Self-employment | -8.0% | 3.4% | -11.1% | -3.0% | -1.2% | 0.2% | -1.1% | -5.4% |
| Social Security | 15.0% | 1.4% | 8.3% | 72.7% | 8.7% | 1.6% | 6.5% | 57.9% |
| Public Assistance | 12.4% | 17.9% | 12.1% | 7.1% | 27.4% | 40.7% | 24.7% | 18.6% |
| Other Income | 12.2% | 6.9% | 13.4% | 11.8% | 13.9% | 7.1% | 15.6% | 14.5% |
| % Families Receiving Income of Specific Types: | | | | | | | | |
| Earnings | 74.4% | 81.4% | 79.7% | 31.4% | 67.6% | 65.5% | 69.6% | 50.4% |
| Wage & Salary | 62.4% | 78.4% | 65.3% | 23.9% | 64.5% | 64.7% | 66.5% | 38.6% |
| Self-employment | 25.5% | 5.8% | 31.4% | 11.1% | 5.7% | 1.1% | 5.8% | 21.9% |
| Social Security | 17.2% | 2.9% | 9.9% | 82.2% | 12.8% | 2.2% | 10.6% | 81.0% |
| Public Assistance | 19.6% | 30.5% | 18.3% | 14.4% | 39.9% | 49.7% | 37.7% | 31.7% |
| Other Income | 37.5% | 24.2% | 39.8% | 39.7% | 33.8% | 21.6% | 26.5% | 41.2% |

* These items are read as follows: For Montana families of all income levels, 71.6% of total family income came from wage and salary earnings, and 83.3% of all families received some income from wages and salaries.

** Negative mean income from farm and ranch self-employment.

## TABLE IV - 15
(cont.)

| Group | FAMILIES | | | | FAMILIES W/FEMALE HOUSEHOLDER (NO HUSBAND PRESENT) | | | |
|---|---|---|---|---|---|---|---|---|
| | | Age of Householder (Yrs) | | | | Age of Householder (Yrs) | | |
| | Total | 15-24 | 25-64 | 65+ | Total | 15-24 | 25-64 | 65+ |
| White - All Income Levels: | | | | | | | | |
| Total Families | 198,336 | 14,098 | 155,989 | 28,249 | 17,649 | 1,769 | 13,619 | 2,261 |
| Mean Family Income | $20,951 | $13,740 | $23,147 | $14,735 | $11,463 | $5,723 | $12,683 | $13,370 |
| % of Aggregate Family Income: | | | | | | | | |
| Earnings | 84.6% | 95.5% | 89.7% | 35.7% | 70.4% | 75.1% | 75.1% | 44.0% |
| Wage & Salary | 71.5% | 90.2% | 75.9% | 24.8% | 65.3% | 74.7% | 70.0% | 37.3% |
| Self-Employment | 13.1% | 5.3% | 13.8% | 10.9% | 5.1% | 0.4% | 5.1% | 6.7% |
| Social Security | 4.5% | 0.4% | 1.6% | 31.6% | 9.0% | 3.3% | 5.9% | 27.8% |
| Public Assistance | 0.4% | 0.9% | 0.4% | 1.0% | 3.4% | 11.8% | 3.2% | 1.8% |
| Other Income | 10.5% | 3.2% | 8.3% | 31.7% | 17.2% | 9.8% | 15.8% | 26.4% |
| % Families Receiving Income of Specified Types: | | | | | | | | |
| Earnings | 90.2% | 97.1% | 96.4% | 51.9% | 85.6% | 79.8% | 89.6% | 66.3% |
| Wage & Salary | 83.2% | 95.6% | 89.4% | 42.2% | 82.4% | 79.7% | 86.5% | 59.8% |
| Self-employment | 25.7% | 11.3% | 28.3% | 18.7% | 10.0% | 0.6% | 10.1% | 16.4% |
| Social Security | 20.6% | 2.2% | 9.8% | 89.7% | 27.1% | 5.4% | 19.5% | 90.3% |
| Public Assistance | 4.3% | 7.2% | 3.7% | 5.9% | 17.4% | 33.5% | 16.3% | 11.9% |
| Other Income | 66.6% | 38.6% | 63.7% | 96.2% | 66.2% | 33.7% | 67.3% | 85.1% |
| White - Income Below Poverty Level: | | | | | | | | |
| Total Families | 16,289 | 2,228 | 12,146 | 1,915 | 4,854 | 1,096 | 3,501 | 257 |
| Mean Income | $3,308 | $3,389 | $2,953 | $3,166 | $3,159 | $2,803 | $3,278 | $3,061 |
| % of Aggregate Family Income: | | | | | | | | |
| Earnings | 61.0% | 75.4% | 67.6% | 3.7% | 52.0% | 54.8% | 54.8% | 0.3% |
| Wage & Salary | 71.0% | 71.6% | 81.6% | 7.5% | 53.6% | 54.7% | 56.3% | 8.7% |
| Self-employment | -10.0% | 3.8% | -14.0% | -3.8% | -1.6% | 0.1% | -1.5% | -8.4% |
| Social Security | 16.2% | 0.6% | 8.8% | 79.4% | 8.8% | 0.6% | 6.7% | 70.8% |
| Public Assistance | 10.1% | 17.1% | 9.6% | 4.0% | 24.7% | 35.1% | 22.9% | 11.5% |
| Other Income | 12.7% | 6.9% | 14.0% | 12.9% | 14.5% | 9.5% | 15.6% | 17.4% |
| % Families Receiving Income of Specific Types: | | | | | | | | |
| Earnings | 75.4% | 83.4% | 81.3% | 28.7% | 70.1% | 68.8% | 72.4% | 44.8% |
| Wage & Salary | 61.7% | 80.6% | 64.7% | 20.3% | 66.4% | 68.6% | 68.5% | 29.6% |
| Self-employment | 28.8% | 5.8% | 35.6% | 12.2% | 6.6% | 0.5% | 6.9% | 28.8% |
| Social Security | 17.2% | 12.6% | 9.8% | 82.9% | 11.9% | 0.6% | 10.3% | 82.9% |
| Public Assistance | 15.7% | 29.3% | 14.3% | 9.2% | 35.7% | 47.2% | 33.5% | 16.3% |
| Other Income | 38.2% | 25.6% | 40.0% | 41.4% | 34.9% | 23.2% | 37.7% | 46.3% |

## TABLE IV - 15
(cont.)

| Group | FAMILIES | | | | FAMILIES W/FEMALE HOUSEHOLDER (NO HUSBAND PRESENT) | | | |
|---|---|---|---|---|---|---|---|---|
| | Total | Age of Householder (Yrs) 15-24 | 25-64 | 65+ | Total | Age of Householder (Yrs) 15-24 | 25-64 | 65+ |
| **Amer. Ind., Eskimo & Aleut - All Income Levels:** | | | | | | | | |
| Total Families | 7,579 | 840 | 6,036 | 703 | 2,097 | 312 | 1,603 | 182 |
| Mean Family Income | $14,101 | $8,268 | $15,157 | $12,004 | $7,872 | $5,927 | $8,172 | $8,326 |
| % of Aggregate Family Income: | | | | | | | | |
| Earnings | 85.1% | 88.2% | 87.2% | 59.7% | 74.0% | 78.5% | 75.2% | 59.5% |
| Wage & Salary | 79.3% | 87.1% | 81.3% | 49.6% | 71.7% | 78.4% | 73.1% | 51.9% |
| Self-Employment | 5.8% | 1.1% | 5.9% | 10.1% | 2.3% | 0.1% | 2.1% | 7.6% |
| Social Security | 3.7% | 1.9% | 2.2% | 22.3% | 5.9% | 3.8% | 4.0% | 20.5% |
| Public Assistance | 3.4% | 5.2% | 3.1% | 5.2% | 10.9% | 11.5% | 10.6% | 10.3% |
| Other Income | 7.8% | 4.7% | 7.5% | 12.8% | 9.2% | 6.2% | 10.2% | 9.7% |
| % Families Receiving Income of Specified Types: | | | | | | | | |
| Earnings | 89.0% | 90.7% | 91.1% | 68.0% | 78.5% | 78.5% | 78.4% | 79.1% |
| Wage & Salary | 86.8% | 88.8% | 89.1% | 64.2% | 77.4% | 75.6% | 78.3% | 73.1% |
| Self-employment | 11.3% | 5.8% | 11.7% | 14.5% | 4.3% | 2.9% | 4.4% | 6.0% |
| Social Security | 17.1% | 7.0% | 11.4% | 78.0% | 19.3% | 9.0% | 14.7% | 77.5% |
| Public Assistance | 20.8% | 20.2% | 20.2% | 26.7% | 37.7% | 36.2% | 37.2% | 44.5% |
| Other Income | 52.4% | 35.8% | 54.0% | 58.2% | 45.6% | 30.8% | 48.4% | 47.3% |
| **Amer. Ind., Eskimo & Aleut - Income Below Poverty Level:** | | | | | | | | |
| Total Families | 2,331 | 380 | 1,727 | 224 | 1,111 | 176 | 847 | 88 |
| Mean Income | $4,171 | $3,203 | $4,299 | $4,834 | $3,586 | $2,025 | $3,774 | $4,402 |
| % of Aggregate Family Income: | | | | | | | | |
| Earnings | 58.3% | 65.0% | 60.6% | 34.8% | 43.9% | 27.7% | 48.1% | 26.2% |
| Wage & Salary | 56.9% | 63.7% | 59.2% | 33.6% | 43.7% | 27.2% | 47.8% | 26.2% |
| Self-employment | 1.4% | 2.7% | 1.4% | 1.2% | 0.2% | 0.5% | 0.3% | 0.0% |
| Social Security | 9.4% | 6.3% | 6.1% | 35.0% | 8.8% | 7.6% | 6.2% | 31.6% |
| Public Assistance | 21.6% | 20.4% | 21.5% | 23.9% | 34.8% | 53.4% | 32.7% | 33.4% |
| Other Income | 10.7% | 8.3% | 11.8% | 6.3% | 12.5% | 11.3% | 13.0% | 8.8% |
| % Families Receiving Income of Specific Types: | | | | | | | | |
| Earnings | 72.6% | 79.5% | 73.3% | 55.4% | 61.5% | 61.9% | 60.9% | 65.9% |
| Wage & Salary | 70.7% | 75.3% | 71.7% | 55.4% | 60.5% | 56.8% | 60.7% | 65.9% |
| Self-employment | 5.2% | 6.8% | 5.2% | 2.7% | 2.1% | 5.1% | 1.7% | 0.0% |
| Social Security | 17.4% | 10.8% | 11.7% | 74.6% | 16.7% | 8.0% | 12.5% | 75.0% |
| Public Assistance | 41.5% | 31.8% | 41.8% | 55.8% | 55.5% | 55.0% | 53.4% | 77.3% |
| Other Income | 36.2% | 22.1% | 40.3% | 28.6% | 30.4% | 17.6% | 33.4% | 27.3% |

NOTE: Families may have more than one source of income.

SOURCE: U.S. Bureau of the Census, 1980 Census, Detailed Population Characteristics, Montana, Tables 238, 245, 248, and 250.

## TABLE IV - 16

## MONTANA STATE GOVERNMENT SALARY ANALYSIS BY SEX, MARCH 1983
(University positions not included)

| Group | Males | Females | Percent |
|---|---|---|---|
| Officials & Administrators: | | | |
| No. of Positions | 393 | 68 | 14.7* |
| Avg. Starting Salary | $25,695 | $21,405 | 83.3 |
| Avg. Current Salary | $31,638 | $25,478 | 80.5 |
| Professionals: | | | |
| No. of Positions | 1,840 | 908 | 33.0 |
| Avg. Starting Salary | $19,407 | $17,584 | 90.6 |
| Avg. Current Salary | $23,097 | $20,207 | 87.5 |
| Technicians: | | | |
| No. of Positions | 832 | 943 | 53.1 |
| Avg. Starting Salary | $15,447 | $13,541 | 87.7 |
| Avg. Current Salary | $18,399 | $15,823 | 85.9 |
| Protective Services: | | | |
| No. of Positions | 486 | 31 | 6.0 |
| Avg. Starting Salary | $15,314 | $13,699 | 89.5 |
| Avg. Current Salary | $17,890 | $15,058 | 84.1 |
| Paraprofessionals: | | | |
| No. of Positions | 321 | 619 | 65.9 |
| Avg. Starting Salary | $12,442 | $11,621 | 93.4 |
| Avg. Current Salary | $14,183 | $13,340 | 94.0 |
| Office and Clerical: | | | |
| No. of Positions | 206 | 1,548 | 88.3 |
| Avg. Starting Salary | $11,725 | $11,295 | 96.3 |
| Avg. Current Salary | $13,734 | $12,762 | 92.9 |
| Skilled Crafts: | | | |
| No. of Positions | 406 | 7 | 1.7 |
| Avg. Starting Salary | $19,515 | $13,893 | 71.2 |
| Avg. Current Salary | $21,011 | $15,957 | 75.9 |
| Service/Maintenance: | | | |
| No. of Positions | 629 | 111 | 15.0 |
| Avg. Starting Salary | $15,567 | $11,167 | 71.7 |
| Avg. Current Salary | $16,925 | $12,480 | 73.7 |
| STATE TOTAL: | | | |
| No. of Positions | 5,113 | 4,235 | 45.3 |
| Avg. Starting Salary | $17,647 | $13,372 | 75.7 |
| Avg. Current Salary | $20,632 | $15,343 | 74.4 |

* This column may be read as follows: Of the total employees in the Officials & Administrators category, 14.7% are female. The average starting salary for women is 83.3% of that for men. The average current salary for women is 80.5% of males' current salary.

SOURCE: Personnel Division, Montana Dept. of Administration, "Annual Report to the Governor on the Montana E.E.O. and Affirmative Action Program, for the period ending June 30, 1983".

## TABLE IV - 17

## MONTANA OCCUPATION OF EXPERIENCED LABOR FORCE BY EARNINGS BY SEX & RACE
1979

| Occupation | TOTAL | | | WHITE | | | AMERICAN INDIAN | | |
|---|---|---|---|---|---|---|---|---|---|
| | Males | Females | Ratio | Males | Females | Ratio | Males | Females | Ratio |
| Exec., Admin. & Manag. | $19,684 | $11,124 | 56.5 | $19,779 | $11,127 | 56.3 | $16,183 | $10,568 | 65.3 |
| Professional Specialty | 18,336 | 12,548 | 68.4 | 18,502 | 12,622 | 68.2 | 12,068 | 9,378 | 77.7 |
| Tech., Sales, Admin. Support | 16,383 | 9,039 | 55.2 | 16,408 | 9,038 | 55.1 | 12,281 | 9,146 | 74.5 |
| Technicians & Related Support | 16,583 | 10,729 | 64.7 | 16,689 | 10,743 | 64.4 | 9,447 | 10,727 | 113.5 |
| Sales Occupations | 16,332 | 8,248 | 50.5 | 16,344 | 8,251 | 50.5 | *12,845 | *7,000 | 54.5 |
| Admin. Support, inc. Clerical | 16,337 | 9,080 | 55.6 | 16,347 | 9,083 | 55.6 | 15,097 | 9,093 | 60.2 |
| Service Occupations | 12,289 | 6,995 | 56.9 | 12,367 | 7,037 | 56.9 | *11,073 | 6,771 | 61.1 |
| Farming, Forestry & Fishing | 9,758 | 4,880 | 50.0 | 9,762 | 4,865 | 49.8 | 9,762 | *9,000 | 92.2 |
| Precision Production, Craft & Repair Ocupations | 16,974 | 10,030 | 59.0 | 17,063 | 9,945 | 58.3 | 12,672 | 10,688 | 84.3 |
| Operators, Fabric. & Laborers | 16,409 | 7,683 | 46.8 | 16,452 | 7,903 | 48.0 | 13,351 | 5,605 | 42.0 |
| Machine Operators, Assemblers & Inspectors | 16,584 | 7,013 | 42.3 | 16,608 | 7,204 | 43.4 | 11,569 | *5,302 | 45.8 |
| Trans. & Material Moving | 17,782 | 7,953 | 44.7 | 17,823 | 10,727 | 60.2 | 16,114 | *7,382 | 45.8 |
| Handlers, Equip. Cleaners, Helpers & Laborers | 14,546 | 9,441 | 64.9 | 14,672 | *9,755 | 66.5 | 12,537 | *3,447 | 27.5 |

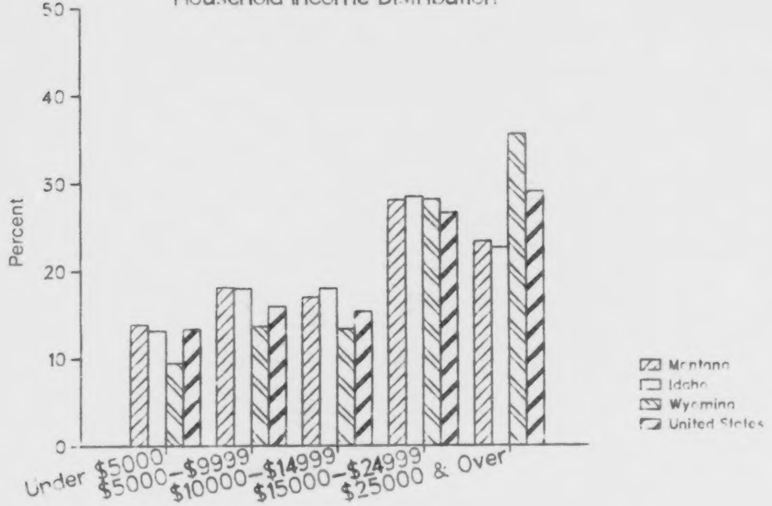
* Data base less than 100

SOURCE: U.S. Bureau of the Census, 1980 Census, Detailed Population Characteristics, Montana.

# FIGURE IV-4
# MONTANA INCOME
## 1979

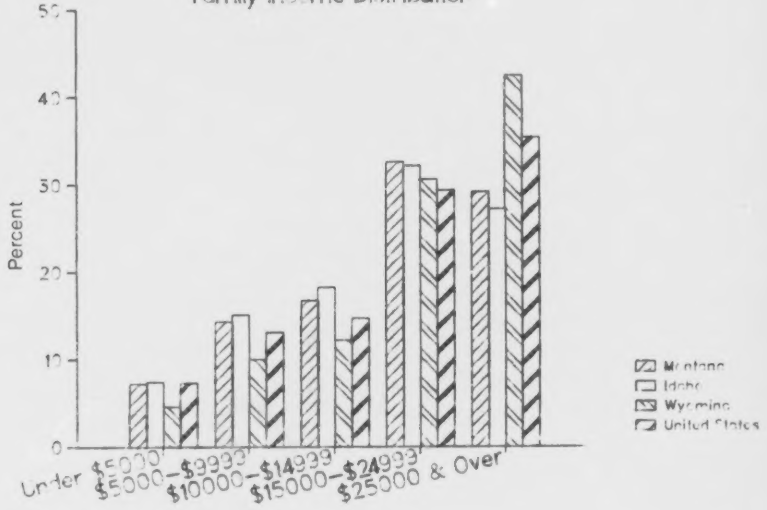
### Figure IV-4a

Household Income Distribution



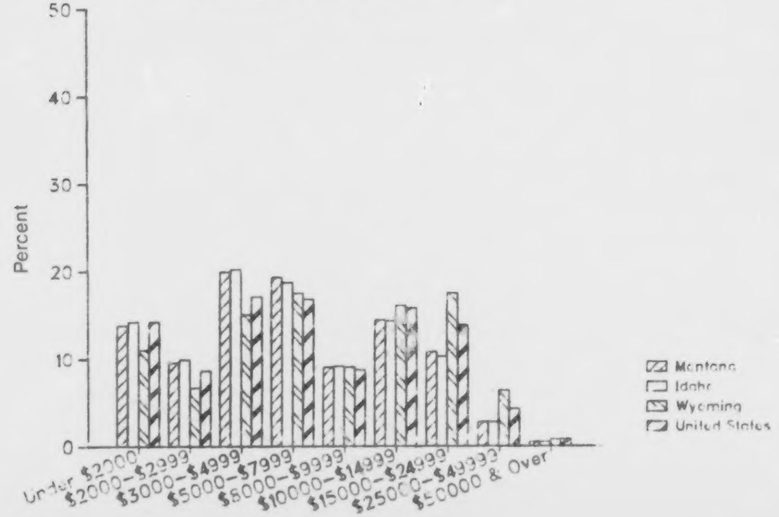
### Figure IV-4b

Family Income Distribution



### Figure IV-4c

Individual Income Distribution



*Source: U.S. Bureau of the Census.*

## TABLE IV - 18

## MONTANA HOUSEHOLDS WITH INCOME IN 1979 BY INCOME TYPE

| Item | 1979 |
|---|---|
| Households, All Income Levels | 285,034 |
| Mean Income (dollars) | $17,994 |
| Households with Earnings* | 238,920 |
| Mean Income (dollars) | $17,759 |
| Households with Interest, Dividend, or Net Rental Income | 113,770 |
| Mean Income (dollars) | $2,822 |
| Households with Social Security Income | 71,133 |
| Mean Income (dollars) | $4,013 |
| Households with Public Assistance Income | 14,256 |
| Mean Income (dollars) | $2,120 |
| Households with All Other Income | 68,608 |
| Mean Income (dollars) | $3,633 |

* Includes wage & salary, nonfarm self-employment, & farm self-employment earnings. Households may have more than one source of income.

SOURCE: U.S. Bureau of the Census, Census of Population: 1980, Computer Tape.

## TABLE IV - 19

## COMPARISON OF HOUSEHOLD INCOME DISTRIBUTION
## U.S., MONTANA, IDAHO, WYOMING: 1979

| Household Income | MONTANA |  | IDAHO |  | WYOMING |  | UNITED STATES |  |
|---|---|---|---|---|---|---|---|---|
|  | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Households | 285,034 | 100.0 | 324,889 | 100.0 | 166,758 | 100.0 | 80,467,427 | 100.0 |
| Less than $5,000 | 39,323 | 13.8 | 42,678 | 13.1 | 15,642 | 9.4 | 10,663,441 | 13.3 |
| $5,000 - $7,499 | 25,866 | 9.1 | 29,141 | 9.0 | 11,585 | 6.9 | 6,439,024 | 8.0 |
| $7,500 - $9,999 | 25,301 | 8.9 | 29,125 | 9.0 | 11,069 | 6.6 | 6,333,385 | 7.9 |
| $10,000 - $14,999 | 48,169 | 16.9 | 58,304 | 17.9 | 22,143 | 13.3 | 12,342,073 | 15.3 |
| $15,000 - $19,999 | 43,335 | 15.2 | 51,118 | 15.7 | 22,966 | 13.8 | 11,379,049 | 14.1 |
| $20,000 - $24,999 | 36,579 | 12.8 | 41,087 | 12.6 | 23,974 | 14.4 | 10,004,409 | 12.4 |
| $25,000 - $34,999 | 40,098 | 14.1 | 44,422 | 13.7 | 33,406 | 20.0 | 12,659,261 | 15.7 |
| $35,000 - $49,999 | 17,867 | 6.3 | 19,945 | 6.1 | 17,721 | 10.6 | 6,954,720 | 8.6 |
| $50,000 or More | 8,496 | 3.0 | 9,069 | 2.8 | 8,252 | 4.9 | 3,692,065 | 4.6 |
| Median | $15,420 |  | $15,285 |  | $19,994 |  | $16,481 |  |
| Mean | $17,994 |  | $17,973 |  | $22,149 |  | $20,306 |  |
| Percent: |  |  |  |  |  |  |  |  |
| Total |  | 100.0 |  | 100.0 |  | 100.0 |  | 100.0 |
| Less Than $5,000 |  | 13.8 |  | 13.1 |  | 9.4 |  | 13.3 |
| $5,000 - $9,999 |  | 18.0 |  | 17.9 |  | 13.6 |  | 15.9 |
| $10,000 - $14,999 |  | 16.9 |  | 17.9 |  | 13.3 |  | 15.3 |
| $15,000 - $24,999 |  | 28.0 |  | 28.4 |  | 28.1 |  | 26.6 |
| $25,000 or More |  | 23.3 |  | 22.6 |  | 35.6 |  | 29.0 |

SOURCES: U.S. Bureau of the Census, 1980 Census, General Social and Economic Characteristics: volumes for the U.S., Idaho, Montana and Wyoming; Tables 71 (states) and 107 (U.S.)

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## TABLE IV - 20

## COMPARISON OF FAMILY INCOME DISTRIBUTION
## U.S., MONTANA, IDAHO, WYOMING: 1979

| Family Income | MONTANA | | IDAHO | | WYOMING | | UNITED STATES | |
|---|---|---|---|---|---|---|---|---|
| | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Families, 1980 | 207,525 | 100.0 | 248,258 | 100.0 | 123,420 | 100.0 | 59,190,133 | 100.0 |
| Less than $5,000 | 14,918 | 7.2 | 18,282 | 7.4 | 5,654 | 4.6 | 4,344,476 | 7.3 |
| $5,000 - $7,499 | 13,962 | 6.7 | 17,512 | 7.1 | 5,811 | 4.7 | 3,681,759 | 6.2 |
| $7,500 - $9,999 | 15,784 | 7.6 | 19,867 | 8.0 | 6,577 | 5.3 | 4,064,705 | 6.9 |
| $10,000 - $14,999 | 34,648 | 16.7 | 45,118 | 18.2 | 15,113 | 12.2 | 8,709,248 | 14.7 |
| $15,000 - $19,999 | 35,439 | 17.1 | 43,244 | 17.4 | 17,927 | 14.5 | 8,937,703 | 15.1 |
| $20,000 - $24,999 | 32,267 | 15.5 | 36,642 | 14.8 | 19,892 | 16.1 | 8,485,832 | 14.3 |
| $25,000 - $34,999 | 36,541 | 17.6 | 40,885 | 16.5 | 29,525 | 23.9 | 11,301,814 | 19.1 |
| $35,000 - $49,999 | 16,261 | 7.8 | 18,430 | 7.4 | 15,776 | 12.8 | 6,332,965 | 10.7 |
| $50,000 or More | 7,705 | 3.7 | 8,278 | 3.3 | 7,145 | 5.8 | 3,331,631 | 5.6 |
| Median | $18,413 | | $17,492 | | $22,430 | | $19,917 | |
| Mean | $20,659 | | $20,155 | | $24,792 | | $23,092 | |
| Percent: | | | | | | | | |
| Total | | 100.0 | | 100.0 | | 100.0 | | 100.0 |
| Less Than $5,000 | | 7.2 | | 7.4 | | 4.6 | | 7.3 |
| $5,000 - $9,999 | | 14.3 | | 15.1 | | 10.0 | | 13.1 |
| $10,000 - $14,999 | | 16.7 | | 18.2 | | 12.2 | | 14.7 |
| $15,000 - $24,999 | | 32.6 | | 32.2 | | 30.6 | | 29.4 |
| $25,000 or More | | 29.2 | | 27.2 | | 42.5 | | 35.4 |

SOURCES: U.S. Bureau of the Census, 1980 Census, General Social and Economic Characteristics: volumes for the U.S., Idaho, Montana and Wyoming; Tables 71 (states) and 107 (U.S.).

## TABLE IV - 21

## COMPARISON OF UNRELATED INDIVIDUAL INCOME DISTRIBUTION
U.S., MONTANA, IDAHO, WYOMING: 1979
(individuals 15 years and older)

| | MONTANA | | IDAHO | | WYOMING | | UNITED STATES | |
|---|---|---|---|---|---|---|---|---|
| Income | Number | Percent | Number | Percent | Number | Percent | Number | Percent |
| Unrelated Individuals, 1980 | 108,917 | 100.0 | 110,223 | 100.0 | 62,030 | 100.0 | 30,041,869 | 100.0 |
| Less than $2,000 | 15,038 | 13.8 | 15,679 | 14.2 | 6,825 | 11.0 | 4,265,687 | 14.2 |
| $2,000 - $2,999 | 10,341 | 9.5 | 10,897 | 9.9 | 4,181 | 6.7 | 2,575,125 | 8.6 |
| $3,000 - $4,999 | 21,667 | 19.9 | 22,243 | 20.2 | 9,301 | 15.0 | 5,141,839 | 17.1 |
| $5,000 - $7,999 | 20,997 | 19.3 | 20,619 | 18.7 | 10,840 | 17.5 | 5,032,369 | 16.8 |
| $8,000 - $9,999 | 9,784 | 9.0 | 10,062 | 9.1 | 5,598 | 9.0 | 2,613,586 | 8.7 |
| $10,000 - $14,999 | 15,730 | 14.4 | 15,737 | 14.3 | 9,985 | 16.1 | 4,753,467 | 15.8 |
| $15,000 - $24,999 | 11,724 | 10.8 | 11,360 | 10.3 | 10,826 | 17.5 | 4,134,492 | 13.8 |
| $25,000 - $49,999 | 3,059 | 2.8 | 3,071 | 2.8 | 3,950 | 6.4 | 1,292,046 | 4.3 |
| $50,000 or More | 577 | 0.5 | 555 | 0.5 | 524 | 0.8 | 233,258 | 0.8 |
| Median | $5,939 | | $5,830 | | $7,956 | | $6,695 | |
| Mean | $8,095 | | $7,941 | | $10,557 | | $9,282 | |

SOURCES: U.S. Bureau of the Census, 1980 Census, General Social and Economic Characteristics: volumes for the U.S., Idaho, Montana and Wyoming; Tables 71 (states) and 107 (U.S.).

## TABLE IV - 22

## MONTANA INCOME DISTRIBUTION BY RACE & SPANISH ORIGIN, FAMILIES: 1979

| Group | WHITE |  | AMERICAN INDIAN |  | SPANISH ORIGIN |  |
|---|---|---|---|---|---|---|
|  | Number | Percent | Number | Percent | Number | Percent |
| Total | 198,336 | 100.0 | 7,579 | 100.0 | 2,012 | 100.0 |
| Less than $5,000 | 13,046 | 6.6 | 1,555 | 20.5 | 231 | 11.5 |
| $5,000 - $9,999 | 27,794 | 14.0 | 1,679 | 22.2 | 337 | 16.7 |
| $10,000 - $14,999 | 32,991 | 16.6 | 1,425 | 18.8 | 318 | 15.8 |
| $15,000 - $19,999 | 34,149 | 17.2 | 1,012 | 13.4 | 393 | 19.5 |
| $20,000 - $24.999 | 31,266 | 15.8 | 793 | 10.5 | 370 | 18.4 |
| $25,000 - $34,999 | 35,554 | 17.9 | 772 | 10.2 | 286 | 14.2 |
| $35,000 - $49,999 | 15,956 | 8.0 | 246 | 3.3 | 58 | 2.9 |
| $50,000 or More | 7,597 | 3.8 | 97 | 1.3 | 19 | 1.0 |
| Mean | $20,951 |  | $14,101 |  | $17,034 |  |
| Median | $18,691 |  | $11,767 |  | $16,463 |  |

SOURCE: U.S. Bureau of the Census, 1980 Census, General Social and Economic Characteristics, Montana, Table 91, and Detailed Population Characteristics, Montana, Table 238.

## TABLE IV - 23

## MONTANA INCIDENCE OF POVERTY BY RACE & SPANISH ORIGIN: 1979

| Group | Above Poverty Level | Below Poverty Level | Percent Below Poverty Level |
|---|---|---|---|
| Total | 672,971 | 94,280 | 12.3 |
| White | 643,632 | 79,371 | 11.0 |
| Indian | 28,823 | 12,861 | 35.1 |
| Spanish Origin | 8,164 | 1,634 | 16.7 |

NOTE: The poverty thresholds are revised annually to allow for changes in the Consumer Price Index. The average poverty threshold for a family of four persons was $7,412 in 1979.

SOURCE: U.S. Bureau of the Census, 1980 Census, Summary Tape File 3A, and General Social and Economic Characteristics, Montana, p. B-22.

## TABLE IV - 24

## MONTANA POVERTY STATUS OF FAMILIES & PERSONS
## 1969 & 1979

| Group | 1969 | 1979 |
|---|---|---|
| Families, All Income Levels | 171,812 | 207,525 |
| Families Below Poverty Level: | | |
| Total | 17,821 | 19,019 |
| w/Related Chldrn Under Age 6 | 6,331 | 8,306 |
| w/Related Chldrn Under Age 18 | 11,600 | 13,854 |
| Percent w/Female Householder; No Husband Present | 27.5% | 31.9% |
| Persons for whom Poverty Status is Determined*: | | |
| All Ages, All Income Levels | 673,934 | 767,251 |
| Percent Below Poverty Level | 13.6% | 12.3% |
| Percent Below 125% of Poverty Level | 19.6% | 17.55% |
| Age 65 Yrs & Over: | | |
| Total, All Income Levels | 64,958 | 79,187 |
| Percent Below Poverty Level | 27.5% | 14.4% |

* Excludes inmates of institutions, members of the armed forces living in barracks or on military ships, college students living in dormitories, and unrelated individuals under 15 years (1980), 14 years (1970); "unrelated individuals" include nonrelatives in family households, persons in nonfamily households, and noninmates in group quarters.

SOURCE: U.S. Bureau of the Census, Census of Population: 1970 & 1980; Computer Tapes.

# Table IV-25

## Poverty Status in 1979 of Families and Persons: 1980

(Excludes inmates of institutions, persons in military group quarters and in college dormitories and unrelated individuals under 15 years.)

| **The State<br>Urban and Rural and Size of Place<br>Inside and Outside SMSA's** | | Urban | | | | | | Rural | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Inside urbanized areas | | | Outside urbanized areas | | | | | | |
| | The State | Total | Total | Central cities | Urban fringe | Places of 10,000 or more | Places of 2,500 to 10,000 | Total | Places of 1,000 to 2,500 | Rural farm | Inside SMSA's | Outside SMSA's |
| **ALL INCOME LEVELS IN 1979** | | | | | | | | | | | | |
| **Families** | **207 525** | **106 914** | **54 071** | **40 153** | **13 918** | **28 826** | **24 017** | **100 611** | **15 156** | **16 592** | **50 202** | **157 323** |
| With Social Security income | 42 378 | 22 604 | 10 387 | 8 514 | 1 873 | 6 452 | 5 765 | 19 774 | 3 678 | 3 164 | 9 623 | 32 755 |
| Income above poverty level | 39 114 | 21 149 | 9 717 | 8 008 | 1 709 | 6 059 | 5 373 | 17 965 | 3 374 | 2 891 | 9 069 | 30 045 |
| Below poverty level without Social Security income | 12 617 | 6 624 | 2 805 | 2 319 | 486 | 1 965 | 1 854 | 5 993 | 1 308 | 611 | 2 626 | 9 991 |
| With public assistance income | 10 334 | 5 628 | 2 950 | 2 404 | 546 | 1 441 | 1 237 | 4 706 | 688 | 333 | 2 860 | 7 474 |
| Income above poverty level | 6 605 | 3 490 | 1 730 | 1 354 | 376 | 876 | 884 | 3 115 | 480 | 259 | 1 804 | 4 801 |
| Below poverty level without public assistance income | 1 049 | 602 | 294 | 231 | 63 | 161 | 147 | 447 | 82 | 19 | 285 | 764 |
| Householder worked in 1979 | 174 337 | 88 810 | 45 558 | 33 224 | 12 334 | 23 454 | 19 798 | 85 527 | 12 276 | 15 275 | 42 725 | 131 612 |
| With related children under 18 years | 115 381 | 57 716 | 29 747 | 20 967 | 8 780 | 15 177 | 12 792 | 57 665 | 8 276 | 8 690 | 28 276 | 87 105 |
| With related children 5 to 17 years | 89 844 | 44 568 | 22 932 | 16 437 | 6 495 | 11 775 | 9 861 | 45 276 | 6 399 | 7 050 | 21 951 | 67 893 |
| Female householder, no husband present | 19 952 | 12 885 | 6 816 | 5 361 | 1 455 | 3 629 | 2 440 | 7 067 | 1 497 | 464 | 5 440 | 14 512 |
| Householder worked in 1979 | 14 334 | 9 434 | 5 046 | 3 914 | 1 132 | 2 646 | 1 742 | 4 900 | 1 093 | 275 | 4 002 | 10 332 |
| With related children under 18 years | 14 291 | 9 029 | 4 926 | 3 782 | 1 144 | 2 442 | 1 661 | 5 262 | 1 064 | 241 | 3 960 | 10 331 |
| With related children under 6 years | 5 542 | 3 473 | 1 884 | 1 470 | 414 | 860 | 729 | 2 069 | 410 | 45 | 1 509 | 4 033 |
| Householder 65 years and over | 29 071 | 15 097 | 6 630 | 5 641 | 989 | 4 295 | 4 172 | 13 974 | 2 750 | 2 590 | 6 111 | 22 960 |
| **Unrelated individuals** | **99 460** | **66 221** | **32 980** | **28 231** | **4 749** | **19 996** | **13 245** | **33 239** | **7 068** | **3 173** | **23 954** | **75 506** |
| With Social Security income | 29 917 | 19 066 | 7 686 | 6 891 | 795 | 6 170 | 5 210 | 10 851 | 3 082 | 972 | 6 362 | 23 555 |
| Income above poverty level | 21 207 | 14 022 | 5 855 | 5 252 | 603 | 4 507 | 3 660 | 7 185 | 1 943 | 740 | 4 753 | 16 454 |
| Below poverty level without Social Security income | 12 644 | 8 620 | 3 177 | 2 795 | 382 | 3 045 | 2 398 | 4 024 | 1 135 | 304 | 2 479 | 10 165 |
| With public assistance income | 4 193 | 2 831 | 1 222 | 1 072 | 150 | 876 | 733 | 1 362 | 306 | 71 | 997 | 3 196 |
| Income above poverty level | 1 551 | 1 061 | 421 | 359 | 62 | 376 | 264 | 490 | 79 | 28 | 303 | 1 248 |
| Below poverty level without public assistance income | 767 | 492 | 168 | 144 | 24 | 227 | 97 | 275 | 48 | 16 | 108 | 659 |
| Worked in 1979 | 68 680 | 46 414 | 24 685 | 20 852 | 3 833 | 13 625 | 8 104 | 22 266 | 4 070 | 2 535 | 17 255 | 51 425 |
| 65 years and over | 27 306 | 17 214 | 6 587 | 5 973 | 614 | 5 661 | 4 966 | 10 092 | 2 927 | 913 | 5 568 | 21 738 |
| **Persons** | **767 251** | **400 906** | **202 226** | **151 870** | **50 356** | **110 208** | **88 472** | **366 345** | **55 371** | **58 323** | **184 630** | **582 621** |
| Related children under 18 years | 227 973 | 109 868 | 55 526 | 39 279 | 16 247 | 29 394 | 24 948 | 118 105 | 16 542 | 18 222 | 54 495 | 173 478 |
| Related children 5 to 17 years | 164 147 | 79 040 | 39 657 | 28 366 | 11 291 | 21 558 | 17 825 | 85 107 | 11 636 | 13 526 | 39 159 | 124 988 |
| 60 years and over | 114 019 | 62 660 | 26 979 | 23 065 | 3 914 | 18 972 | 16 709 | 51 359 | 10 369 | 8 852 | 24 400 | 89 619 |
| 65 years and over | 79 187 | 44 430 | 18 766 | 16 249 | 2 517 | 13 564 | 12 100 | 34 757 | 7 711 | 5 456 | 16 705 | 62 482 |
| **INCOME IN 1979 BELOW POVERTY LEVEL** | | | | | | | | | | | | |
| **Families** | **19 019** | **7 864** | **4 033** | **2 935** | **1 098** | **2 185** | **1 646** | **11 155** | **1 243** | **2 768** | **3 764** | **15 255** |
| Percent below poverty level | 9.2 | 7.4 | 7.5 | 7.3 | 7.9 | 7.6 | 6.9 | 11.1 | 8.2 | 16.7 | 7.5 | 9.7 |
| Mean income deficit | $3 159 | $2 714 | $2 809 | $2 854 | $2 688 | $2 559 | $2 687 | $3 473 | $2 739 | $4 261 | $3 004 | $3 198 |
| Persons per family | 3.54 | 3.25 | 3.26 | 3.31 | 3.13 | 3.19 | 3.27 | 3.75 | 3.47 | 3.95 | 3.42 | 3.57 |
| With Social Security income | 3 264 | 1 455 | 670 | 506 | 164 | 393 | 392 | 1 809 | 304 | 273 | 554 | 2 710 |
| With public assistance income | 3 729 | 2 138 | 1 220 | 1 050 | 170 | 565 | 353 | 1 591 | 208 | 74 | 1 056 | 2 673 |
| Householder worked in 1979 | 12 899 | 5 003 | 2 573 | 1 824 | 749 | 1 378 | 1 052 | 7 896 | 792 | 2 485 | 2 572 | 10 327 |
| With related children under 18 years | 13 854 | 5 853 | 3 079 | 2 214 | 865 | 1 572 | 1 202 | 8 001 | 895 | 2 021 | 2 885 | 10 969 |
| With related children 5 to 17 years | 10 387 | 4 040 | 2 112 | 1 580 | 532 | 1 076 | 852 | 6 347 | 674 | 1 689 | 2 088 | 8 299 |
| Female householder, no husband present | 6 072 | 3 598 | 1 935 | 1 499 | 436 | 976 | 687 | 2 474 | 404 | 126 | 1 576 | 4 496 |
| Householder worked in 1979 | 3 588 | 2 177 | 1 115 | 828 | 287 | 627 | 435 | 1 411 | 266 | 66 | 946 | 2 642 |
| With related children under 18 years | 5 483 | 3 275 | 1 778 | 1 369 | 409 | 858 | 639 | 2 208 | 375 | 110 | 1 481 | 4 002 |
| With related children under 6 years | 3 074 | 1 939 | 1 027 | 846 | 181 | 513 | 399 | 1 135 | 201 | 28 | 836 | 2 238 |
| Householder 65 years und over | 2 165 | 815 | 329 | 231 | 98 | 223 | 263 | 1 350 | 236 | 204 | 267 | 1 898 |
| **Unrelated individuals** | **26 945** | **17 479** | **8 019** | **6 854** | **1 165** | **6 018** | **3 442** | **9 466** | **2 056** | **811** | **5 139** | **21 806** |
| Percent below poverty level | 27.1 | 26.4 | 24.3 | 24.3 | 24.5 | 30.1 | 26.0 | 28.5 | 29.1 | 25.6 | 21.5 | 28.9 |
| Mean income deficit | $1 693 | $1 657 | $1 754 | $1 715 | $1 982 | $1 561 | $1 599 | $1 758 | $1 456 | $1 905 | $1 728 | $1 684 |
| With Social Security income | 8 710 | 5 044 | 1 831 | 1 639 | 192 | 1 663 | 1 550 | 3 666 | 1 139 | 232 | 1 609 | 7 101 |
| With public assistance income | 2 642 | 1 770 | 801 | 713 | 88 | 500 | 469 | 872 | 227 | 43 | 594 | 1 948 |
| Worked in 1979 | 14 384 | 10 171 | 4 992 | 4 271 | 721 | 3 726 | 1 453 | 4 213 | 636 | 553 | 2 750 | 11 634 |
| 65 years and over | 7 831 | 4 302 | 1 456 | 1 308 | 148 | 1 427 | 1 419 | 3 529 | 1 063 | 215 | 1 333 | 6 498 |
| **Persons** | **94 280** | **43 006** | **21 170** | **16 572** | **4 598** | **12 986** | **8 850** | **51 274** | **6 363** | **11 753** | **17 996** | **76 284** |
| Percent below poverty level | 12.3 | 10.7 | 10.5 | 10.9 | 9.1 | 11.8 | 10.0 | 14.0 | 11.5 | 20.2 | 9.7 | 13.1 |
| Related children under 18 years | 31 503 | 12 408 | 6 444 | 4 855 | 1 589 | 3 343 | 2 621 | 19 095 | 2 103 | 4 761 | 6 322 | 25 181 |
| Related children 5 to 17 years | 20 906 | 7 706 | 3 840 | 2 932 | 908 | 2 093 | 1 773 | 13 200 | 1 420 | 3 451 | 3 962 | 16 944 |
| 60 years and over | 14 887 | 7 215 | 2 726 | 2 299 | 427 | 2 255 | 2 234 | 7 672 | 1 731 | 1 042 | 2 431 | 12 456 |
| 65 years and over | 11 414 | 5 609 | 2 011 | 1 692 | 319 | 1 790 | 1 808 | 5 805 | 1 448 | 616 | 1 780 | 9 634 |
| **INCOME IN 1979 BELOW 125 PERCENT OF POVERTY LEVEL** | | | | | | | | | | | | |
| **Families** | **27 867** | **11 263** | **5 742** | **4 141** | **1 601** | **3 030** | **2 491** | **16 604** | **2 002** | **3 708** | **5 379** | **22 488** |
| Percent below poverty level | 13.4 | 10.5 | 10.6 | 10.3 | 11.5 | 10.5 | 10.4 | 16.5 | 13.2 | 22.3 | 10.7 | 14.3 |
| Mean income deficit | $3 561 | $3 229 | $3 313 | $3 367 | $3 173 | $3 193 | $3 080 | $3 786 | $3 000 | $4 769 | $3 480 | $3 580 |
| Persons per family | 3.50 | 3.19 | 3.23 | 3.23 | 3.21 | 3.09 | 3.21 | 3.72 | 3.41 | 3.92 | 3.39 | 3.53 |
| With Social Security income | 5 991 | 2 580 | 1 143 | 866 | 277 | 712 | 725 | 3 411 | 589 | 381 | 1 013 | 4 978 |
| With public assistance income | 4 583 | 2 561 | 1 434 | 1 219 | 215 | 673 | 454 | 2 022 | 289 | 89 | 1 288 | 3 295 |
| Householder worked in 1979 | 19 212 | 7 304 | 3 900 | 2 748 | 1 152 | 1 846 | 1 558 | 11 908 | 1 278 | 3 365 | 3 834 | 15 378 |
| With related children under 18 years | 19 531 | 7 920 | 4 241 | 2 993 | 1 248 | 2 028 | 1 651 | 11 611 | 1 340 | 2 713 | 3 997 | 15 534 |
| With related children 5 to 17 years | 14 692 | 5 496 | 2 894 | 2 155 | 739 | 1 386 | 1 216 | 9 196 | 1 055 | 2 227 | 2 865 | 11 827 |
| Female householder, no husband present | 7 679 | 4 474 | 2 390 | 1 874 | 516 | 1 177 | 907 | 3 205 | 556 | 157 | 1 960 | 5 719 |
| Householder worked in 1979 | 4 877 | 2 877 | 1 498 | 1 137 | 361 | 762 | 617 | 2 000 | 385 | 94 | 1 259 | 3 618 |
| With related children under 18 years | 6 846 | 4 010 | 2 161 | 1 678 | 483 | 1 033 | 816 | 2 836 | 507 | 138 | 1 793 | 5 053 |
| With related children under 6 years | 3 604 | 2 175 | 1 175 | 955 | 220 | 539 | 461 | 1 429 | 239 | 32 | 956 | 2 648 |
| Householder 65 years and over | 3 969 | 1 498 | 593 | 440 | 153 | 439 | 466 | 2 471 | 425 | 281 | 543 | 3 426 |
| **Unrelated individuals** | **36 656** | **24 155** | **11 017** | **9 494** | **1 523** | **8 326** | **4 812** | **12 501** | **2 817** | **1 074** | **7 304** | **29 352** |
| Percent below poverty level | 36.9 | 36.5 | 33.4 | 33.6 | 32.1 | 41.6 | 36.3 | 37.6 | 39.9 | 33.8 | 30.5 | 38.9 |
| Mean income deficit | $2 056 | $2 009 | $2 092 | $2 050 | $2 357 | $1 937 | $1 943 | $2 146 | $1 861 | $2 266 | $2 016 | $2 065 |
| With Social Security income | 14 063 | 8 684 | 3 202 | 2 872 | 330 | 2 981 | 2 501 | 5 379 | 1 647 | 347 | 2 739 | 11 324 |
| With public assistance income | 3 117 | 2 059 | 899 | 796 | 103 | 620 | 540 | 1 058 | 265 | 43 | 766 | 2 351 |
| Worked in 1979 | 18 971 | 13 388 | 6 717 | 5 762 | 955 | 4 747 | 1 924 | 5 583 | 909 | 730 | 3 796 | 15 175 |
| 65 years and over | 12 670 | 7 600 | 2 573 | 2 360 | 213 | 2 663 | 2 364 | 5 070 | 1 551 | 306 | 2 297 | 10 373 |
| **Persons** | **134 295** | **60 034** | **29 542** | **22 885** | **6 657** | **17 694** | **12 798** | **74 261** | **9 641** | **15 617** | **25 557** | **108 738** |
| Percent below poverty level | 17.5 | 15.0 | 14.6 | 15.1 | 13.2 | 16.1 | 14.5 | 20.3 | 17.4 | 26.8 | 13.8 | 18.7 |
| Related children under 18 years | 44 177 | 16 349 | 8 597 | 6 280 | 2 317 | 4 153 | 3 599 | 27 828 | 3 166 | 6 378 | 8 566 | 35 611 |
| Related children 5 to 17 years | 29 440 | 10 291 | 5 178 | 3 853 | 1 325 | 2 657 | 2 456 | 19 149 | 2 194 | 4 589 | 5 420 | 24 020 |
| 60 years and over | 24 567 | 12 583 | 4 674 | 4 000 | 674 | 4 157 | 3 752 | 11 984 | 2 700 | 1 423 | 4 216 | 20 351 |
| 65 years and over | 19 333 | 10 129 | 3 611 | 3 136 | 475 | 3 408 | 3 110 | 9 204 | 2 278 | 827 | 3 246 | 16 087 |
| **INCOME IN 1979 BELOW SPECIFIED POVERTY LEVEL** | | | | | | | | | | | | |
| **Percent of persons:** | | | | | | | | | | | | |
| Below 75 percent of poverty level | 8.3 | 7.0 | 6.9 | 7.4 | 5.7 | 7.5 | 6.5 | 9.7 | 7.1 | 15.2 | 6.6 | 8.8 |
| Below 150 percent of poverty level | 22.7 | 19.5 | 18.9 | 19.2 | 18.1 | 20.5 | 19.8 | 26.2 | 23.6 | 32.8 | 18.0 | 24.2 |
| Below 200 percent of poverty level | 34.6 | 30.6 | 29.6 | 29.5 | 29.7 | 31.5 | 32.1 | 38.8 | 37.7 | 44.7 | 28.8 | 36.4 |

Source: U.S. Bureau of the Census, 1980 Census, General Social and Economic Characteristics, Montana, Table 72.

# Table IV-26

## Poverty Status in 1979 of Familes and Persons by Race: 1980

(Excludes inmates of institutions, persons in military group quarters and in college dormitories, and unrelated individuals under 15 years.)

| **The State Urban and Rural** | White | | | | | | Black | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Urban | | | Rural | | | Urban | | | Rural | |
| | | | Inside urbanized areas | | | | | | Inside urbanized areas | | | |
| | The State | Total | Central cities | Urban fringe | Total | Farm | The State | Total | Central cities | Urban fringe | Total | Farm |
| **ALL INCOME LEVELS IN 1979** | | | | | | | | | | | | |
| **Families** | **198 336** | **103 324** | **38 546** | **13 413** | **95 012** | **16 276** | **364** | **332** | **132** | **131** | **12** | ... |
| With Social Security income | 40 898 | 22 131 | 8 323 | 1 843 | 18 767 | 3 119 | 18 | 16 | 8 | - | 2 | ... |
| Income above poverty level | 38 093 | 20 817 | 7 892 | 1 687 | 17 276 | 2 859 | 13 | 13 | 5 | - | - | ... |
| Below poverty level without Social Security income | 12 331 | 6 504 | 2 270 | 481 | 5 827 | 604 | 8 | 8 | - | - | - | ... |
| With public assistance income | 8 469 | 4 884 | 1 999 | 479 | 3 585 | 282 | 36 | 36 | 26 | - | - | ... |
| Income above poverty level | 5 904 | 3 251 | 1 257 | 357 | 2 653 | 236 | 13 | 13 | 13 | - | - | ... |
| Below poverty level without public assistance income | 877 | 521 | 191 | 63 | 356 | 14 | 6 | 6 | 6 | - | - | ... |
| Householder worked in 1979 | 167 206 | 85 971 | 32 039 | 11 864 | 81 235 | 14 994 | 302 | 296 | 121 | 131 | 6 | ... |
| With related children under 18 years | 108 081 | 54 959 | 19 803 | 8 320 | 53 122 | 8 460 | 250 | 240 | 86 | 122 | 10 | ... |
| With related children 5 to 17 years | 84 217 | 42 628 | 15 561 | 6 225 | 41 589 | 6 837 | 148 | 142 | 58 | 84 | 6 | ... |
| Female householder, no husband present | 17 649 | 11 942 | 4 885 | 1 345 | 5 707 | 431 | 21 | 19 | 19 | - | 2 | ... |
| Householder worked in 1979 | 12 874 | 8 830 | 3 627 | 1 038 | 4 044 | 254 | 13 | 13 | 13 | - | - | ... |
| With related children under 18 years | 12 262 | 8 189 | 3 355 | 1 034 | 4 073 | 220 | 13 | 13 | 13 | - | - | ... |
| With related children under 6 years | 4 426 | 3 015 | 1 244 | 350 | 1 411 | 41 | 4 | 4 | 4 | - | - | ... |
| Householder 65 years and over | 28 249 | 14 883 | 5 563 | 989 | 13 366 | 2 550 | 23 | 21 | 6 | - | 2 | ... |
| **Unrelated individuals** | **95 532** | **64 386** | **27 320** | **4 640** | **31 146** | **3 056** | **290** | **229** | **116** | **19** | **61** | ... |
| With Social Security income | 29 263 | 18 768 | 6 761 | 789 | 10 495 | 956 | 40 | 32 | 12 | - | 8 | ... |
| Income above poverty level | 20 904 | 13 855 | 5 164 | 597 | 7 049 | 732 | 34 | 26 | 12 | - | 8 | ... |
| Below poverty level without Social Security income | 12 449 | 8 494 | 2 725 | 382 | 3 955 | 304 | 31 | 26 | 12 | - | 5 | ... |
| With public assistance income | 3 870 | 2 675 | 1 020 | 145 | 1 195 | 71 | 3 | - | - | - | 3 | ... |
| Income above poverty level | 1 485 | 1 028 | 343 | 57 | 457 | 28 | 3 | - | - | - | 3 | ... |
| Below poverty level without public assistance income | 739 | 474 | 138 | 24 | 265 | 16 | - | - | - | - | - | ... |
| Worked in 1979 | 66 096 | 45 140 | 20 165 | 3 736 | 20 956 | 2 453 | 216 | 161 | 96 | 19 | 55 | ... |
| 65 years and over | 26 758 | 16 979 | 5 882 | 614 | 9 779 | 905 | 35 | 32 | 12 | - | 3 | ... |
| **Persons** | **723 021** | **385 458** | **144 856** | **48 303** | **337 563** | **56 404** | **1 448** | **1 270** | **584** | **445** | **178** | ... |
| Related children under 18 years | 209 143 | 103 679 | 36 468 | 15 378 | 105 464 | 17 411 | 540 | 444 | 193 | 203 | 96 | ... |
| Related children 5 to 17 years | 150 965 | 74 813 | 26 368 | 10 741 | 76 152 | 12 874 | 365 | 298 | 152 | 129 | 67 | ... |
| 60 years and over | 111 040 | 61 644 | 22 618 | 3 873 | 49 396 | 8 698 | 95 | 76 | 27 | - | 19 | ... |
| 65 years and over | 77 187 | 43 826 | 16 011 | 2 501 | 33 361 | 5 371 | 65 | 60 | 18 | - | 5 | ... |
| **INCOME IN 1979 BELOW POVERTY LEVEL** | | | | | | | | | | | | |
| **Families** | **16 289** | **6 837** | **2 434** | **936** | **9 452** | **2 688** | **76** | **74** | **31** | **25** | **2** | ... |
| Percent below poverty level | 8.2 | 6.6 | 6.3 | 7.0 | 9.9 | 16.5 | 20.9 | 21.0 | 20.4 | 19.1 | 16.7 | ... |
| Mean income deficit | $3 041 | $2 600 | $2 672 | $2 521 | $3 360 | $4 280 | $2 257 | $2 315 | $2 569 | $1 930 | $110 | ... |
| Persons per family | 3.37 | 3.15 | 3.14 | 3.07 | 3.53 | 3.89 | 3.50 | 3.54 | 2.90 | 4.64 | 2.00 | ... |
| With Social Security income | 2 805 | 1 314 | 431 | 156 | 1 491 | 260 | 5 | 3 | 3 | - | 2 | ... |
| With public assistance income | 2 565 | 1 633 | 742 | 122 | 932 | 46 | 23 | 23 | 13 | - | - | ... |
| Householder worked in 1979 | 11 433 | 4 423 | 1 588 | 622 | 7 010 | 2 417 | 53 | 53 | 20 | 25 | - | ... |
| With related children under 18 years | 11 443 | 4 954 | 1 793 | 709 | 6 489 | 1 951 | 60 | 60 | 17 | 25 | - | ... |
| With related children 5 to 17 years | 8 595 | 3 467 | 1 313 | 442 | 5 128 | 1 619 | 23 | 23 | 3 | 20 | - | ... |
| Female householder, no husband present | 4 854 | 3 089 | 1 251 | 361 | 1 765 | 114 | 9 | 7 | 7 | - | 2 | ... |
| Householder worked in 1979 | 3 041 | 1 939 | 744 | 228 | 1 10[illegible] | 54 | 7 | 7 | 7 | - | - | ... |
| With related children under 18 years | 4 355 | 2 789 | 1 132 | 334 | 1 566 | 98 | 7 | 7 | 7 | - | - | ... |
| With related children under 6 years | 2 385 | 1 625 | 677 | 152 | 760 | 28 | 4 | 4 | 4 | - | - | ... |
| Householder 65 years and over | 1 915 | 778 | 215 | 98 | 1 137 | 199 | 2 | - | - | - | 2 | ... |
| **Unrelated individuals** | **24 906** | **16 651** | **6 484** | **1 128** | **8 255** | **748** | **88** | **75** | **33** | **7** | **13** | ... |
| Percent below poverty level | 26.1 | 25.9 | 23.7 | 24.3 | 26.5 | 24.5 | 30.3 | 32.8 | 28.4 | 36.8 | 21.3 | ... |
| Mean income deficit | $1 641 | $1 638 | $1 693 | $1 961 | $1 648 | $1 868 | $2 558 | $2 347 | $1 643 | $3 025 | $3 775 | ... |
| With Social Security income | 8 359 | 4 913 | 1 597 | 192 | 3 446 | 224 | 6 | 6 | - | - | - | ... |
| With public assistance income | 2 385 | 1 647 | 677 | 88 | 738 | 43 | - | - | - | - | - | ... |
| Worked in 1979 | 13 357 | 9 721 | 4 029 | 696 | 3 636 | 515 | 48 | 41 | 25 | 7 | 7 | ... |
| 65 years and over | 7 539 | 4 207 | 1 292 | 148 | 3 332 | 215 | 6 | 6 | - | - | - | ... |
| **Persons** | **79 389** | **38 193** | **14 071** | **4 022** | **41 196** | **11 066** | **368** | **336** | **133** | **116** | **32** | ... |
| Percent below poverty level | 11.0 | 9.9 | 9.7 | 8.3 | 12.2 | 19.6 | 25.4 | 26.5 | 22.8 | 26.1 | 18.0 | ... |
| Related children under 18 years | 24 532 | 10 228 | 3 656 | 1 303 | 14 304 | 4 412 | 164 | 149 | 49 | 66 | 15 | ... |
| Related children 5 to 17 years | 16 393 | 6 496 | 2 304 | 747 | 9 897 | 3 147 | 77 | 62 | 14 | 39 | 15 | ... |
| 60 years and over | 13 860 | 6 898 | 2 171 | 418 | 6 962 | 1 002 | 24 | 15 | 9 | - | 9 | ... |
| 65 years and over | 10 713 | 5 460 | 1 652 | 319 | 5 253 | 604 | 8 | 6 | - | - | 2 | ... |
| **INCOME IN 1979 BELOW 125 PERCENT OF POVERTY LEVEL** | | | | | | | | | | | | |
| **Families** | **24 378** | **10 021** | **3 497** | **1 419** | **14 357** | **3 610** | **94** | **85** | **37** | **33** | **6** | ... |
| Percent below poverty level | 12.3 | 9.7 | 9.1 | 10.6 | 15.1 | 22.2 | 25.8 | 25.0 | 24.3 | 25.2 | 50.0 | ... |
| Mean income deficit | $3 384 | $3 072 | $3 152 | $2 964 | $3 602 | $4 755 | $3 300 | $3 443 | $3 461 | $3 075 | $1 195 | ... |
| Persons per family | 3.35 | 3.11 | 3.09 | 3.18 | 3.52 | 3.87 | 3.41 | 3.43 | 2.78 | 4.33 | 3.17 | ... |
| With Social Security income | 5 357 | 2 396 | 766 | 264 | 2 961 | 363 | 5 | 3 | 3 | - | 2 | ... |
| With public assistance income | 3 266 | 2 012 | 879 | 167 | 1 254 | 56 | 29 | 29 | 19 | - | - | ... |
| Householder worked in 1979 | 17 147 | 6 558 | 2 400 | 1 005 | 10 589 | 3 279 | 61 | 61 | 20 | 33 | - | ... |
| With related children under 18 years | 16 488 | 6 857 | 2 453 | 1 076 | 9 631 | 2 625 | 72 | 68 | 17 | 33 | 4 | ... |
| With related children 5 to 17 years | 12 428 | 4 807 | 1 789 | 649 | 7 621 | 2 139 | 23 | 23 | 3 | 20 | - | ... |
| Female householder, no husband present | 6 243 | 3 888 | 1 564 | 436 | 2 355 | 140 | 9 | 7 | 7 | - | 2 | ... |
| Householder worked in 1979 | 4 124 | 2 562 | 991 | 297 | 1 562 | 77 | 7 | 7 | 7 | - | - | ... |
| With related children under 18 years | 5 516 | 3 447 | 1 379 | 403 | 2 069 | 121 | 7 | 7 | 7 | - | - | ... |
| With related children under 6 years | 2 770 | 1 826 | 760 | 186 | 944 | 32 | 4 | 4 | 4 | - | - | ... |
| Householder 65 years and over | 3 600 | 1 435 | 411 | 153 | 2 165 | 271 | 8 | 6 | 6 | - | 2 | ... |
| **Unrelated individuals** | **34 362** | **23 162** | **9 037** | **1 468** | **11 200** | **1 011** | **135** | **117** | **49** | **7** | **18** | ... |
| Percent below poverty level | 36.0 | 36.0 | 33.1 | 31.6 | 36.0 | 33.1 | 46.6 | 51.1 | 42.2 | 36.8 | 29.5 | ... |
| Mean income deficit | $1 996 | $1 984 | $2 022 | $2 351 | $2 019 | $2 202 | $2 408 | $2 242 | $1 888 | $3 970 | $3 484 | ... |
| With Social Security income | 13 598 | 8 467 | 2 772 | 330 | 5 131 | 339 | 37 | 32 | 12 | - | 5 | ... |
| With public assistance income | 2 844 | 1 930 | 754 | 103 | 914 | 43 | - | - | - | - | - | ... |
| Worked in 1979 | 17 824 | 12 858 | 5 490 | 912 | 4 966 | 692 | 69 | 57 | 29 | 7 | 12 | ... |
| 65 years and over | 12 287 | 7 437 | 2 297 | 213 | 4 850 | 306 | 32 | 32 | [illegible] | - | - | ... |
| **Persons** | **115 549** | **54 374** | **19 860** | **6 022** | **61 175** | **14 833** | **447** | **406** | **161** | **124** | **41** | ... |
| Percent below poverty level | 16.0 | 14.1 | 13.7 | 12.5 | 18.1 | 26.3 | 30.9 | 32.0 | 27.6 | 27.9 | 23.0 | ... |
| Related children under 18 years | 35 392 | 13 873 | 4 879 | 2 026 | 21 519 | 5 966 | 178 | 163 | 55 | 66 | 15 | ... |
| Related children 5 to 17 years | 23 785 | 8 870 | 3 063 | 1 164 | 14 915 | 4 228 | 91 | 76 | 20 | 39 | 15 | ... |
| 60 years and over | 23 174 | 12 135 | 3 782 | 665 | 11 039 | 1 374 | 61 | 47 | 27 | - | 14 | ... |
| 65 years and over | 18 356 | 9 873 | 3 030 | 475 | 8 483 | 806 | 40 | 38 | 18 | - | 2 | ... |
| **INCOME IN 1979 BELOW SPECIFIED POVERTY LEVEL** | | | | | | | | | | | | |
| **Percent of persons:** | | | | | | | | | | | | |
| Below 75 percent of poverty level | 7.3 | 6.3 | 6.4 | 5.1 | 8.3 | 15.0 | 15.7 | 15.7 | 14.6 | 10.3 | 15.7 | ... |
| Below 150 percent of poverty level | 21.1 | 18.6 | 17.7 | 17.2 | 23.9 | 32.3 | 36.0 | 35.7 | 33.6 | 29.2 | 38.2 | ... |
| Below 200 percent of poverty level | 32.8 | 29.5 | 27.9 | 28.7 | 36.6 | 44.0 | 53.7 | 55.4 | 57.5 | 46.7 | 41.6 | ... |

# Table IV-26 (continued)

## Poverty Status in 1979 of Families and Persons by Race: 1980

(Excludes inmates of institutions, persons in military group quarters and in college dormitories, and unrelated individuals under 15 years.)

| The State<br>Urban and Rural | American Indian, Eskimo, and Aleut | | | | | | Asian and Pacific Islander | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Urban | | | Rural | | | Urban | | | Rural | |
| | | | Inside urbanized areas | | | | | | Inside urbanized areas | | | |
| | The State | Total | Central cities | Urban fringe | Total | Farm | The State | Total | Central cities | Urban fringe | Total | Farm |
| **ALL INCOME LEVELS IN 1979** | | | | | | | | | | | | |
| **Families** | 7 579 | 2 254 | 933 | 349 | 5 325 | 284 | 495 | 380 | 157 | 83 | 115 | 23 |
| With Social Security income | 1 295 | 334 | 120 | 22 | 961 | 39 | 82 | 61 | 25 | 8 | 21 | 6 |
| Income above poverty level | 889 | 229 | 81 | 14 | 660 | 26 | 71 | 50 | 14 | 8 | 21 | 6 |
| Below poverty level without Social Security income | 236 | 81 | 38 | 5 | 155 | 7 | 23 | 14 | - | - | 9 | - |
| With public assistance income | 1 579 | 500 | 233 | 42 | 1 079 | 44 | 82 | 75 | 29 | 25 | 7 | - |
| Income above poverty level | 611 | 177 | 60 | 12 | 434 | 23 | 25 | 25 | - | 7 | - | - |
| Below poverty level without public assistance income | 159 | 68 | 27 | - | 91 | 5 | - | - | - | - | - | - |
| Householder worked in 1979 | 5 869 | 1 788 | 693 | 242 | 4 081 | 262 | 357 | 275 | 116 | 55 | 82 | 17 |
| With related children under 18 years | 6 133 | 1 759 | 696 | 217 | 4 374 | 214 | 320 | 259 | 99 | 79 | 61 | 7 |
| With related children 5 to 17 years | 4 799 | 1 255 | 543 | 117 | 3 544 | 197 | 232 | 182 | 87 | 38 | 50 | 7 |
| Female householder, no husband present | 2 097 | 763 | 337 | 90 | 1 334 | 27 | 32 | 21 | 12 | 9 | 11 | 6 |
| Householder worked in 1979 | 1 353 | 510 | 214 | 83 | 843 | 21 | 12 | 12 | 12 | - | - | - |
| With related children under 18 years | 1 847 | 676 | 294 | 90 | 1 171 | 21 | 26 | 21 | 12 | 9 | 5 | - |
| With related children under 6 years | 1 023 | 368 | 158 | 53 | 655 | 4 | 3 | - | - | - | 3 | - |
| Householder 65 years and over | 703 | 127 | 46 | - | 576 | 40 | 56 | 47 | 13 | - | 9 | - |
| **Unrelated individuals** | 2 912 | 1 078 | 524 | 30 | 1 834 | 99 | 371 | 278 | 120 | 32 | 93 | 9 |
| With Social Security income | 509 | 184 | 85 | - | 325 | 16 | 39 | 39 | 20 | 6 | - | - |
| Income above poverty level | 209 | 96 | 57 | - | 113 | 8 | 25 | 25 | 6 | 6 | - | - |
| Below poverty level without Social Security income | 128 | 79 | 51 | - | 49 | - | 7 | 7 | - | - | - | - |
| With public assistance income | 262 | 98 | 35 | - | 164 | - | 26 | 26 | 13 | - | - | - |
| Income above poverty level | 52 | 22 | 10 | - | 30 | - | 6 | 6 | 6 | - | - | - |
| Below poverty level without public assistance income | 28 | 18 | 6 | - | 10 | - | - | - | - | - | - | - |
| Worked in 1979 | 1 882 | 757 | 375 | 27 | 1 125 | 66 | 218 | 168 | 86 | 23 | 50 | 9 |
| 65 years and over | 451 | 163 | 52 | - | 288 | 8 | 27 | 27 | 14 | - | - | - |
| **Persons** | 36 684 | 9 581 | 4 116 | 896 | 27 103 | 1 776 | 2 929 | 2 211 | 986 | 499 | 718 | 101 |
| Related children under 18 years | 16 064 | 3 982 | 1 723 | 384 | 12 082 | 791 | 996 | 788 | 374 | 200 | 208 | 13 |
| Related children 5 to 17 years | 11 326 | 2 813 | 1 269 | 276 | 8 513 | 632 | 645 | 503 | 228 | 122 | 142 | 13 |
| 60 years and over | 2 441 | 617 | 245 | 11 | 1 824 | 126 | 254 | 193 | 87 | 19 | 61 | 19 |
| 65 years and over | 1 668 | 360 | 119 | 6 | 1 308 | 76 | 165 | 133 | 61 | 10 | 32 | 9 |
| **INCOME IN 1979 BELOW POVERTY LEVEL** | | | | | | | | | | | | |
| **Families** | 2 331 | 707 | 285 | 98 | 1 624 | 61 | 144 | 111 | 69 | 39 | 33 | 10 |
| Percent below poverty level | 30.8 | 31.4 | 30.5 | 39.4 | 30.5 | 21.5 | 29.1 | 29.2 | 43.9 | 47.0 | 28.7 | 43.5 |
| Mean income deficit | $3 852 | $3 282 | $3 391 | $3 623 | $4 101 | $3 372 | $5 077 | $5 248 | $5 585 | $4 827 | $4 504 | $2 460 |
| Persons per family | 4.61 | 3.72 | 4.00 | 2.77 | 5.00 | 7.03 | 4.76 | 5.21 | 5.64 | 4.41 | 3.27 | 2.10 |
| With Social Security income | 406 | 105 | 39 | 8 | 301 | 13 | 11 | 11 | 11 | - | - | - |
| With public assistance income | 968 | 323 | 173 | 30 | 645 | 21 | 57 | 50 | 29 | 18 | 7 | - |
| Householder worked in 1979 | 1 293 | 445 | 153 | 91 | 848 | 56 | 64 | 48 | 34 | 11 | 16 | 10 |
| With related children under 18 years | 2 089 | 620 | 238 | 92 | 1 469 | 61 | 113 | 96 | 54 | 39 | 17 | - |
| With related children 5 to 17 years | 1 594 | 414 | 154 | 47 | 1 180 | 61 | 89 | 72 | 46 | 23 | 17 | - |
| Female householder, no husband present | 1 111 | 411 | 175 | 66 | 700 | 12 | 12 | 9 | - | 9 | 3 | - |
| Householder worked in 1979 | 525 | 220 | 71 | 59 | 305 | 12 | - | - | - | - | - | - |
| With related children under 18 years | 1 028 | 393 | 164 | 66 | 635 | 12 | 12 | 9 | - | 9 | 3 | - |
| With related children under 6 years | 623 | 251 | 117 | 29 | 372 | - | 3 | - | - | - | 3 | - |
| Householder 65 years and over | 224 | 26 | 5 | - | 198 | 5 | 7 | 7 | 7 | - | - | - |
| **Unrelated individuals** | 1 604 | 507 | 223 | 8 | 1 097 | 47 | 226 | 158 | 67 | 17 | 48 | 9 |
| Percent below poverty level | 55.1 | 47.0 | 42.6 | 26.7 | 59.8 | 47.5 | 55.5 | 56.8 | 55.8 | 53.1 | 51.6 | 100.0 |
| Mean income deficit | $2 277 | $1 883 | $2 023 | $1 897 | $2 460 | $1 855 | $2 808 | $2 547 | $2 754 | $2 596 | $3 669 | $3 775 |
| With Social Security income | 300 | 88 | 28 | - | 212 | 8 | 14 | 14 | 14 | - | - | - |
| With public assistance income | 210 | 76 | 25 | - | 134 | - | 20 | 20 | 7 | - | - | - |
| Worked in 1979 | 810 | 297 | 146 | 5 | 513 | 22 | 88 | 67 | 39 | 8 | 21 | 9 |
| 65 years and over | 265 | 75 | 2 | - | 190 | - | 14 | 14 | 14 | - | - | - |
| **Persons** | 12 861 | 3 199 | 1 490 | 253 | 9 662 | 632 | 946 | 746 | 464 | 191 | 200 | 30 |
| Percent below poverty level | 35.1 | 33.4 | 36.2 | 28.2 | 35.6 | 35.6 | 32.3 | 33.7 | 47.1 | 38.3 | 27.9 | 29.7 |
| Related children under 18 years | 6 145 | 1 472 | 720 | 128 | 4 667 | 342 | 371 | 332 | 240 | 81 | 39 | - |
| Related children 5 to 17 years | 4 074 | 884 | 413 | 78 | 3 190 | 297 | 202 | 174 | 119 | 44 | 28 | - |
| 60 years and over | 883 | 230 | 64 | - | 653 | 23 | 71 | 47 | 23 | 9 | 24 | 10 |
| 65 years and over | 645 | 116 | 13 | - | 529 | 12 | 24 | 23 | 23 | - | 1 | - |
| **INCOME IN 1979 BELOW 125 PERCENT OF POVERTY LEVEL** | | | | | | | | | | | | |
| **Families** | 3 011 | 837 | 388 | 106 | 2 154 | 79 | 162 | 122 | 69 | 43 | 40 | 10 |
| Percent below poverty level | 39.7 | 38.0 | 41.6 | 42.6 | 40.5 | 27.8 | 32.7 | 32.1 | 43.9 | 51.8 | 34.8 | 43.5 |
| Mean income deficit | $4 770 | $4 295 | $4 051 | $4 808 | $4 959 | $5 082 | $6 484 | $6 872 | $7 910 | $6 107 | $5 301 | $3 675 |
| Persons per family | 4.66 | 3.71 | 3.94 | 2.75 | 5.04 | 6.58 | 4.57 | 5.01 | 5.64 | 4.21 | 3.23 | 2.10 |
| With Social Security income | 561 | 128 | 57 | 13 | 433 | 18 | 18 | 18 | 11 | - | - | - |
| With public assistance income | 1 105 | 354 | 192 | 30 | 751 | 26 | 57 | 50 | 29 | 18 | 7 | - |
| Householder worked in 1979 | 1 837 | 566 | 238 | 99 | 1 271 | 74 | 75 | 52 | 34 | 15 | 23 | 10 |
| With related children under 18 years | 2 671 | 741 | 329 | 100 | 1 930 | 79 | 120 | 103 | 54 | 39 | 17 | - |
| With related children 5 to 17 years | 2 036 | 503 | 233 | 47 | 1 533 | 79 | 96 | 79 | 46 | 23 | 17 | - |
| Female householder, no husband present | 1 314 | 473 | 222 | 71 | 841 | 17 | 12 | 9 | - | 9 | 3 | - |
| Householder worked in 1979 | 716 | 282 | 118 | 64 | 434 | 17 | - | - | - | - | - | - |
| With related children under 18 years | 1 215 | 455 | 211 | 71 | 760 | 17 | 12 | 9 | - | 9 | 3 | - |
| With related children under 6 years | 760 | 278 | 135 | 34 | 482 | - | 3 | - | - | - | 3 | - |
| Householder 65 years and over | 324 | 33 | 12 | - | 291 | 10 | 14 | 14 | 7 | - | - | - |
| **Unrelated individuals** | 1 755 | 590 | 287 | 8 | 1 165 | 47 | 223 | 158 | 67 | 17 | 65 | 9 |
| Percent below poverty level | 60.3 | 54.7 | 54.8 | 26.7 | 63.5 | 47.5 | 60.1 | 56.8 | 55.8 | 53.1 | 69.9 | 100.0 |
| Mean income deficit | $2 986 | $2 517 | $2 458 | $2 842 | $3 223 | $2 800 | $3 517 | $3 485 | $3 683 | $3 541 | $3 594 | $4 720 |
| With Social Security income | 369 | 134 | 67 | - | 235 | 8 | 14 | 14 | 14 | - | - | - |
| With public assistance income | 226 | 82 | 31 | - | 144 | - | 20 | 20 | 7 | - | - | - |
| Worked in 1979 | 868 | 328 | 165 | 5 | 540 | 22 | 96 | 67 | 39 | 8 | 29 | 9 |
| 65 years and over | 323 | 110 | 30 | - | 213 | - | 14 | 14 | 14 | - | - | - |
| **Persons** | 16 429 | 3 798 | 1 836 | 271 | 12 631 | 729 | 1 011 | 787 | 473 | 199 | 224 | 30 |
| Percent below poverty level | 44.8 | 39.6 | 45.8 | 30.2 | 46.6 | 41.0 | 34.5 | 35.6 | 48.0 | 39.9 | 31.2 | 29.7 |
| Related children under 18 years | 7 888 | 1 705 | 872 | 133 | 6 183 | 405 | 386 | 347 | 244 | 81 | 39 | - |
| Related children 5 to 17 years | 5 156 | 1 035 | 534 | 78 | 4 121 | 354 | 213 | 185 | 119 | 44 | 28 | - |
| 60 years and over | 1 187 | 304 | 144 | - | 883 | 32 | 78 | 54 | 23 | 9 | 24 | 10 |
| 65 years and over | 869 | 171 | 54 | - | 698 | 21 | 31 | 30 | 23 | - | 1 | - |
| **INCOME IN 1979 BELOW SPECIFIED POVERTY LEVEL** | | | | | | | | | | | | |
| **Percent of persons:** | | | | | | | | | | | | |
| Below 75 percent of poverty level | 26.0 | 26.6 | 28.4 | 23.7 | 25.8 | 21.7 | 24.7 | 24.7 | 34.9 | 28.7 | 24.4 | 29.7 |
| Below 150 percent of poverty level | 52.1 | 47.8 | 54.5 | 35.5 | 53.7 | 47.2 | 39.4 | 38.5 | 48.0 | 51.3 | 42.3 | 50.5 |
| Below 200 percent of poverty level | 65.7 | 62.7 | 66.9 | 48.7 | 66.7 | 62.5 | 50.7 | 49.3 | 55.6 | 60.9 | 55.0 | 74.3 |

*Source:* U.S. Bureau of the Census, 1980 Census, General Social and Economic Characteristics, Montana, Table 82.

## TABLE IV - 27

## MONTANA FAMILIES WITH INCOME BELOW POVERTY LEVEL
1969 & 1979

| | Percent of Total 1969 | Percent of Total 1979 |
|---|---|---|
| United States | 10.7 | 9.6 |
| Montana | 10.4 | 9.1 |
| Idaho | 10.9 | 9.9 |
| Wyoming | 9.3 | 5.9 |

SOURCE: U.S. Bureau of the Census, State and Metropolitan Area Data Book, 1982, p. 507.

## TABLE IV - 28

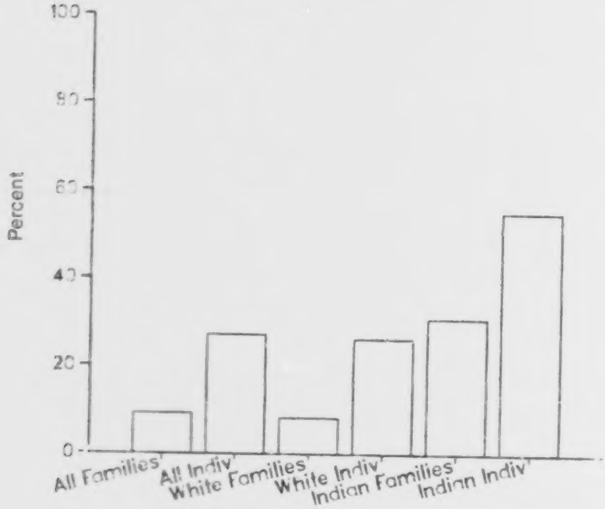
## MONTANA POVERTY STATUS IN 1979
## OF FAMILIES & PERSONS BY RACE: 1980

| Income | Number | Total |
|---|---|---|
| All Families | 19,019 | 9.2 |
| All Individuals | 26,945 | 27.1 |
| White Families | 16,289 | 8.2 |
| White Individuals | 24,906 | 26.1 |
| Indian Families | 2,331 | 30.8 |
| Indian Individuals | 1,604 | 55.1 |

SOURCE: U.S. Bureau of the Census, 1980 Census, General Social and Economic Characteristics, Montana, Table 82.

## FIGURE IV-5

Montana
1979 Poverty Status,
by Race



*Source: U.S. Bureau of The Census.*

## TABLE IV - 29

## MONTANA PERSONS AGE 16+ WITH INCOME BELOW POVERTY LEVEL BY SEX, AGE & RACE: 1979

| Group | Total | Income Below Poverty Level |  |
|---|---|---|---|
|  |  | Number | Percent |
| Total Persons 16+: | 567,711 | 65,365 | 11.5 |
| 16-24 Yrs | 124,762 | 20,896 | 16.8 |
| 25-54 Yrs | 292,443 | 26,294 | 9.0 |
| 55-64 Yrs | 71,319 | 6,761 | 9.5 |
| 65 Yrs & Over | 79,187 | 11,414 | 14.4 |
| Total Female 16+: | 287,679 | 38,097 | 13.2 |
| 16-24 Yrs | 62,196 | 11,746 | 18.9 |
| 25-54 Yrs | 145,317 | 14,791 | 10.2 |
| 55-64 Yrs | 36,244 | 3,974 | 11.0 |
| 65 Yrs & Over | 43,922 | 7,586 | 17.3 |
| Total White 16+: | 540,300 | 56,919 | 10.5 |
| 16-24 Yrs | 116,042 | 17,594 | 15.2 |
| 25-54 Yrs | 277,772 | 22,453 | 8.1 |
| 55-64 Yrs | 69,299 | 6,159 | 8.9 |
| 65 Yrs & Over | 77,187 | 10,713 | 13.9 |
| White Female 16+: | 273,399 | 33,310 | 12.2 |
| 16-24 Yrs | 57,850 | 10,022 | 17.3 |
| 25-54 Yrs | 137,490 | 12,488 | 9.1 |
| 55-64 Yrs | 35,187 | 3,625 | 10.3 |
| 65 Yrs & Over | 42,872 | 7,175 | 16.7 |
| Total American Indian 16+: | 22,341 | 7,206 | 32.3 |
| 16-24 Yrs | 7,278 | 2,837 | 39.0 |
| 25-54 Yrs | 11,790 | 3,248 | 27.6 |
| 55-64 Yrs | 1,605 | 476 | 29.7 |
| 65 Yrs & Over | 1,668 | 645 | 38.7 |
| Indian Female 16+: | 11,693 | 4,127 | 35.3 |
| 16-24 Yrs | 3,678 | 1,490 | 40.5 |
| 25-54 Yrs | 6,283 | 1,986 | 31.6 |
| 55-64 Yrs | 835 | 272 | 32.6 |
| 65 Yrs & Over | 897 | 379 | 42.3 |

SOURCE: U.S. Bureau of the Census, 1980 Census, Detailed Population Characteristics, Montana, Table 245.

## TABLE IV - 30

## POVERTY RATE OF MONTANA FEMALE HOUSEHOLDERS BY 1980 LABOR FORCE STATUS

| | Percent Total | Percent White | Percent Native American |
|---|---|---|---|
| Worked Full-Time | 15.3 | 16.7 | 9.1 |
| Worked Less than Full-Time | 43.8 | 45.8 | 37.2 |
| Did not Work | 40.9 | 37.5 | 53.7 |

SOURCE: U.S. Bureau of The Census, 1980 Census, General Social and Economic Characteristics, Montana.

## TABLE IV - 31

### AID TO FAMILIES WITH DEPENDENT CHILDREN (AFDC) & MEDICAL ASSISTANCE (MEDICAID), MONTANA FY'S ENDING 6/77 TO 6/82

| Item | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
|---|---|---|---|---|---|---|
| AFDC: | | | | | | |
| Total Payments, FY | $12,284,781 | $12,961,136 | $14,479,314 | $17,065,588 | $18,950,287 | $18,455,938 |
| Average No. of Cases/Month | 6,162 | 6,100 | 6,061 | 6,480 | 7,085 | 6,119 |
| Average Monthly Payment | $166 | $177 | $199 | $219 | $223 | $253 |
| Medicaid: | | | | | | |
| Total Payments, FY | $40,040,652 | $47,925,334 | $53,886,227 | $58,042,758 | $70,912,909 | $74,837,496 |
| Average No. of Cases/Month | 16,612 | 16,883 | 17,221 | 17,289 | 19,709 | 18,782 |
| Average Monthly Payment | $199 | $236 | $261 | $278 | $299 | $334 |

SOURCE: Bureau of Statistics & Research, Montana Dept. of Social & Rehabilitative Services, Statistical Reports, State Fiscal Year 1982, State Fiscal Year 1981, and some unpublished.

## TABLE IV - 32

### MONTANA HOUSEHOLDS RECEIVING FOOD STAMPS & VALUE OF STAMPS MONTANA FY'S ENDING 6/77 TO 6/82

| Item | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
|---|---|---|---|---|---|---|
| Avg. No. of Public Assistance Household Cases per Month | 3,249 | 3,072 | 3,162 | 3,817 | 4,563 | 4,463 |
| Avg. No. Non-Assistance Household Cases per Month | 6,496 | 5,897 | 7,016 | 10,783 | 12,816 | 13,267 |
| Avg. Monthly Payment Per Case | $75 | $80 | $85 | $95 | $105 | $110 |
| Total Payments, FY | $8,819,287 | $8,597,351 | ... | ... | ... | ... |

SOURCE: Bureau of Statistics & Research, Montana Dept. of Social & Rehabilitative Services, Statistical Reports, State Fiscal Year 1982, State Fiscal Year 1981, and some unpublished.

## TABLE IV - 33

### MONTANA AFDC* RECIPIENTS BY SEX & CATEGORY OF PAYEE**
### (for month of July 1982, 1983, 1984)

| | July 1982 | | July 1983 | | July 1984 | |
|---|---|---|---|---|---|---|
| | Female | Male | Female | Male | Female | Male |
| Payee Not Included: | | | | | | |
| Incapacitation | 9 | 26 | 12 | 20 | 10 | 27 |
| Other Reason | 418 | 74 | 346 | 60 | 401 | 52 |
| Payee Included: | | | | | | |
| With Income | 569 | 36 | 766 | 47 | 897 | 49 |
| Without Income | 3,920 | 199 | 4,807 | 247 | 5,109 | 302 |
| Total: | 4,916 | 335 | 5,931 | 374 | 6,417 | 430 |

* Aid to Families with Dependent Children: Monthly grants to provide day-to-day requirements of low-income children in need because of the absence or incapacitation of a parent.

** The first category consists of cases in which the AFDC check does not include funds for the payee. The second category deals with the number of single parents receiving monies for themselves and their children

SOURCE: Montana Dept. of Social & Rehabilitative Services, unpublished data.

## TABLE IV - 34

### MONTANA MEDICAID* RECIPIENTS BY SEX & AGE
### (State Fiscal Year 1981)

| Age | Male | Female |
|---|---|---|
| Under 5 Yrs | 8,235 | 7,968 |
| 6 - 14 Yrs | 7,804 | 7,721 |
| 15 - 20 Yrs | 2,650 | 5,400 |
| 21 - 25 Yrs | 1,521 | 5,706 |
| 26 - 30 Yrs | 947 | 2,767 |
| 31 - 64 Yrs | 4,330 | 8,160 |
| 65 - 70 Yrs | 1,232 | 1,681 |
| 71 - 80 Yrs | 1,972 | 2,892 |
| 81 Yrs & Over | 2,894 | 5,975 |
| Total: | 31,587 | 48,272 |
| Total, including Unborn: | 81,317 | |

* Includes Aid to Families with Dependent Children & Medicaid recipients.

SOURCE: Montana Dept. of Social & Rehabilitative Services, unpublished data.

# CHAPTER V

# PUBLIC FINANCE

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## TABLE V - 1

## MONTANA DEPARTMENT OF REVENUE COLLECTIONS
(Fiscal Years 78 - 84)

| Item | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|---|---|---|---|---|---|---|---|
| Abandoned Property | $ 132,283 | $ 546,893 | $ 428,038 | $ 274,552 | $ 397,919 | $ 353,353 | $ 179,731 |
| Aviation Fuel Tax | 340,865 | 356,202 | 384,216 | 386,790 | 323,510 | 325,187 | 347,762 |
| Bad Debt Collections | 66,994 | 109,639 | 114,677 | 146,078 | 225,924 | 304,887 | 225,590 |
| Campaign Fund Check-Off | 68,606 | 62,581 | 24,891 | 4,800 | 4,111 | 4,323 | 3,540 |
| Camper Decal Fee | 15,663 | 13,371 | 12,185 | 10,707 | 9,862 | 9,602 | 8,811 |
| Cement & Gypsum Taxes & Licenses | 153,894 | 134,532 | 129,886 | 136,314 | 136,942 | 96,685 | 117,213 |
| Cigarette Tax | 11,269,507 | 10,996,443 | 11,153,889 | 11,162,433 | 11,233,044 | 10,580,701 | 12,652,027 |
| Cigarette Wholesalers & Retail Licenses | 16,795 | 17,135 | 20,115 | 17,295 | 15,470 | 17,425 | 16,000 |
| Coal Severance Tax | 33,856,362 | 42,048,718 | 75,124,932 | 70,415,018 | 86,186,886 | 80,045,016 | 82,823,426 |
| Consumer Counsel Tax | 415,089 | 297,092 | 384,653 | 396,998 | 561,081 | 440,605 | 666,566 |
| Contractors' Gross Receipts Tax (net) | (261,829) | 6,335,000 | 1,728,618 | 391,337 | 234,907 | 1,113,275 | 1,035,416 |
| Corporation License Tax | 29,238,771 | 36,091,657 | 45,623,191 | 52,900,963 | 44,630,472 | 35,824,950 | 35,396,240 |
| Diesel Fuel Tax | 9,251,891 | 9,914,384 | 10,787,516 | 11,705,212 | 11,697,235 | 11,877,324 | 17,793,066 |
| Electric Energy Producers' License Tax | 1,865,427 | 2,523,707 | 2,060,960 | 1,367,959 | 1,753,173 | 1,546,157 | 2,413,172 |
| Escheated Estates (net) | 77,611 | 52,464 | 33,734 | 41,728 | 427,323 | (153,235) | 75,754 |
| Freight Line Company Tax | 582,555 | 675,790 | 956,356 | 1,200,092 | 1,344,761 | 1,432,164 | 1,333,899 |
| Gasoline License Tax | 37,534,905 | 38,095,296 | 39,917,484 | 36,857,986 | 37,395,507 | 36,687,189 | 51,088,589 |
| Income Tax Withheld | 98,544,729 | 115,926,412 | 116,921,843 | 118,853,268 | 131,393,056 | 141,229,169 | 150,233,302 |
| Income Tax All Other | 25,026,060 | 25,413,294 | 18,695,783 | 27,183,201 | 12,410,694 | 10,555,004 | 20,113,042 |
| Inheritance Tax (net) | 7,278,346 | 6,490,197 | 8,537,241 | 6,165,727 | 7,680,529 | 6,398,489 | 6,318,078 |
| Liquid Petroleum Gas Licenses & Taxes | 30,055 | 1,390 | 0 | 0 | 0 | 0 | 0 |
| Metalliferous Mines License Tax | 1,756,635 | 1,544,516 | 2,516,819 | 1,564,568 | 1,861,208 | 1,542,061 | 2,630,135 |
| Micaceous Mineral Mines License Tax | 10,058 | 10,358 | 11,802 | 10,794 | 10,432 | 9,824 | 8,941 |
| Natural Gas Severance Tax | 923,600 | 1,151,103 | 1,264,025 | 2,116,291 | 2,659,811 | 2,649,726 | 2,797,996 |
| Net Proceeds Penalties | 2,325 | 3,825 | 11,825 | 6,050 | 8,200 | 15,950 | 7,975 |
| Oil Severance Tax | 6,807,583 | 7,056,573 | 10,544,555 | 19,578,173 | 51,073,425 | 45,228,535 | 49,029,017 |
| Public Contractors' License Tax | 148,845 | 141,430 | 164,620 | 174,570 | 184,045 | 194,085 | 14,588 |
| Resource Indemnity Trust Tax | 2,257,261 | 2,107,359 | 3,630,321 | 4,959,024 | 7,159,153 | 7,780,721 | 6,716,089 |
| Rural Electric & Telephone Licenses Tax | 9,548 | 8,870 | 11,030 | 10,698 | 12,453 | 10,788 | 13,030 |
| Sleeping Car Company License Tax | 79,973 | 111,900 | 0 | 0 | 0 | 0 | 0 |
| Store License Tax | 302,016 | 293,667 | 307,521 | 284,685 | 301,367 | 283,123 | 285,896 |
| Telephone License Tax | 1,398,647 | 1,634,247 | 1,783,776 | 2,039,384 | 2,167,815 | 2,463,670 | 2,580,543 |
| Tobacco Products Tax | 331,491 | 367,365 | 397,831 | 464,768 | 519,448 | 581,203 | 657,733 |
| Trip Permits | 616,660 | 279,900 | 0 | 0 | 0 | 0 | 0 |
| Other* | 4,899 | 12,197 | 12,501 | 13,327 | 16,167 | 17,939 | 19,867 |
| Totals, Current Dollars: | $270,154,120 | $310,825,507 | $353,067,834 | $370,840,790 | $414,035,930 | $399,465,895 | $457,603,034 |
| Revenue Collections, 1983 Constant Dollars | $400,410,020 | $423,560,147 | $436,402,905 | $422,009,687 | $439,866,717 | $399,465,895 | $433,258,553 |

* includes Coal Dealers' License, Gasoline Dealers' Refund Permits, National Housing Tax, and Tramway Tax.

GNP Implicit Price Deflators for State and Local Government used for constant dollars.

SOURCE: Research Bureau, Montana Dept. of Revenue, unpublished data, and Montana Dept. of Revenue, Report of the State Department of Revenue, July 1, 1980 to June 30, 1982, p. 117.

## TABLE V - 2

## MONTANA DEPARTMENT OF REVENUE COLLECTIONS
## PERCENT OF TOTAL BY SOURCE
## (Fiscal Years 78 - 84)

| | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 |
|---|---|---|---|---|---|---|---|
| Abandoned Property | 0.0 | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 |
| Aviation Fuel Tax | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Bad Debt Collections | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 |
| Campaign Fund Check-Off | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Camper Decal Fee | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cement & Gypsum Taxes & Licenses | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Cigarette Tax | 4.2 | 3.5 | 3.2 | 3.0 | 2.7 | 2.6 | 2.8 |
| Cigarette Wholesalers & Retail Licenses | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Coal Severance Tax | 12.5 | 13.5 | 21.3 | 19.0 | 20.8 | 20.0 | 18.1 |
| Consumer Counsel Tax | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Contractors' Gross Receipts Tax (net) | -0.1 | 2.0 | 0.5 | 0.1 | 0.1 | 0.3 | 0.2 |
| Corporation License Tax | 10.8 | 11.6 | 12.9 | 14.3 | 10.8 | 9.0 | 7.7 |
| Diesel Fuel Tax | 3.4 | 3.2 | 3.1 | 3.2 | 2.8 | 3.0 | 3.9 |
| Electric Energy Producers' License Tax | 0.7 | 0.8 | 0.6 | 0.4 | 0.4 | 0.4 | 0.5 |
| Escheated Estates (net) | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 |
| Freight Line Company Tax | 0.2 | 0.2 | 0.3 | 0.3 | 0.3 | 0.4 | 0.3 |
| Gasoline License Tax | 13.9 | 12.3 | 11.3 | 9.9 | 9.0 | 9.2 | 13.3 |
| Income Tax Withheld | 36.5 | 37.3 | 32.9 | 32.0 | 31.7 | 35.4 | 32.8 |
| Income Tax All Other | 9.3 | 8.2 | 5.3 | 7.3 | 3.0 | 2.6 | 4.4 |
| Inheritance Tax (net) | 2.7 | 2.1 | 2.4 | 1.7 | 1.9 | 1.6 | 1.4 |
| Liquid Petroleum Gas Licenses & Taxes | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Metalliferous Mines License Tax | 0.7 | 0.5 | 0.7 | 0.4 | 0.4 | 0.4 | 0.6 |
| Micaceous Mineral Mines License Tax | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Natural Gas Severance Tax | 0.3 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.6 |
| Net Proceeds Penalties | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Oil Severance Tax | 2.5 | 2.3 | 3.0 | 5.3 | 12.3 | 11.3 | 10.7 |
| Public Contractors' License Tax | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Resource Indemnity Trust Tax | 0.8 | 0.7 | 1.0 | 1.3 | 1.7 | 1.9 | 1.5 |
| Rural Electric & Telephone Licenses Tax | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sleeping Car Company License Tax | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Store License Tax | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Telephone License Tax | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.6 | 0.6 |
| Tobacco Products Tax | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Trip Permits | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Other | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Totals: | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

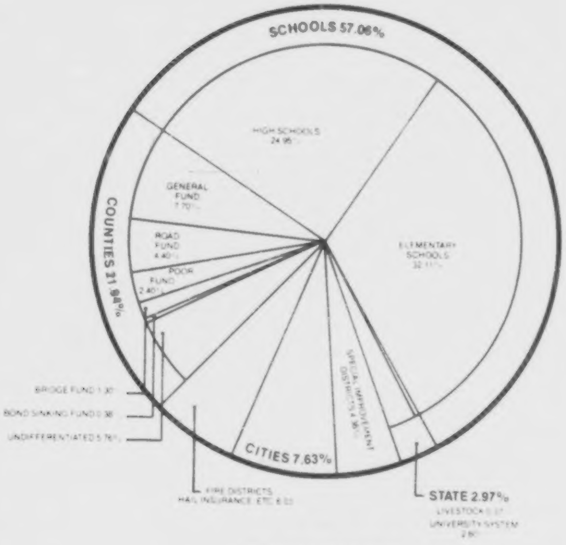
NOTE: percentages may not add to exactly 100 percent because of rounding

SOURCE: Based on Research Bureau, Montana Dept. of Revenue, unpublished data, and Montana Dept. of Revenue, Report of the State Department of Revenue, July 1, 1980 to June 30, 1982, p. 117. Percentages by Census & Economic Information Center, Montana Dept. of Commerce.

# MONTANA STATE AND LOCAL TAXATION

## FIGURE V-1

PROPERTY TAXES LEVIED
1983



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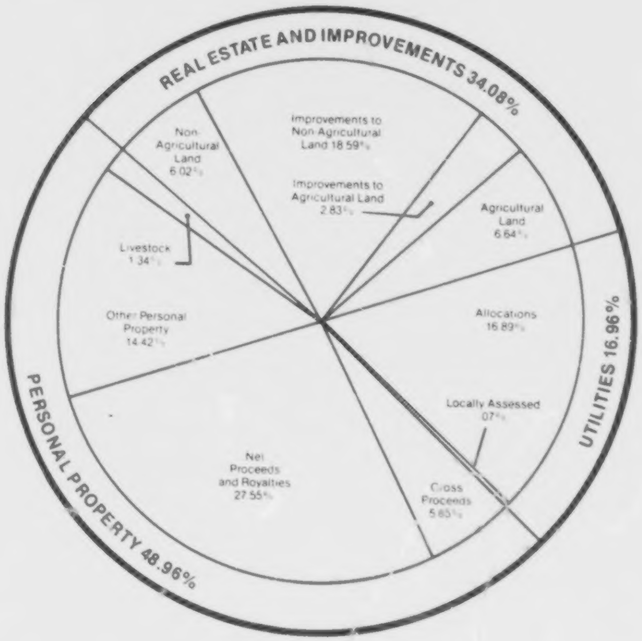
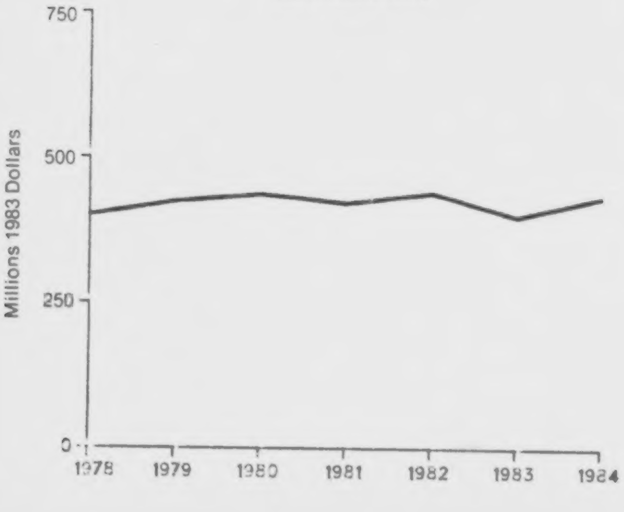
## FIGURE V-2

ANALYSIS OF THE
1983 TAX BASE



## FIGURE V-3

MONTANA STATE GOVERNMENT
Tax Collections



*Source: Research Bureau, Montana Department of Revenue*

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## TABLE VI - 1

## FDIC-INSURED BANK OPERATING STATISTICS FOR MONTANA
(in thousands of dollars)

| Year | Banks | Total Assets | Total Deposits | Total Equity Capital | Total Loans* | Comm. & Indus. Loans | Total Securities** |
|---|---|---|---|---|---|---|---|
| 1966 | 131 | $1,311,842 | $1,189,115 | $ 95,151 | $ 673,291 | $ 133,440 | $ 431,961 |
| 1967 | 132 | 1,425,432 | 1,292,391 | 100,540 | 724,561 | 148,235 | 488,923 |
| 1968 | 134 | 1,555,139 | 1,400,248 | 107,537 | 794,056 | 162,738 | 537,259 |
| 1969 | 135 | 1,680,207 | 1,485,554 | 115,560 | 868,421 | 184,217 | 542,720 |
| 1970 | 139 | 1,867,146 | 1,653,294 | 126,749 | 959,411 | 207,951 | 632,733 |
| 1971 | 143 | 2,117,044 | 1,868,781 | 142,163 | 1,088,493 | 230,554 | 732,186 |
| 1972 | 146 | 2,442,078 | 2,157,335 | 160,533 | 1,320,315 | 282,628 | 795,369 |
| 1973 | 149 | 2,735,051 | 2,396,192 | 182,346 | 1,564,838 | 349,363 | 803,622 |
| 1974 | 152 | 2,994,011 | 2,616,725 | 204,604 | 1,787,746 | 396,712 | 785,501 |
| 1975 | 154 | 3,347,371 | 2,910,524 | 229,531 | 1,942,575 | 422,506 | 932,833 |
| 1976 | 155 | 3,569,264 | 3,203,247 | 246,392 | 2,044,077 | 492,627 | 951,873 |
| 1977 | 157 | 4,005,763 | 3,600,215 | 267,706 | 2,359,148 | 496,365 | 1,031,267 |
| 1978 | 160 | 4,457,006 | 3,955,345 | 316,587 | 2,820,356 | 707,477 | 1,090,829 |
| 1979 | 162 | 4,889,735 | 4,321,141 | 359,330 | 3,017,916 | 754,467 | 1,150,605 |
| 1980 | 163 | 5,317,193 | 4,622,429 | 401,438 | 3,012,122 | 823,551 | 1,378,822 |
| 1981 | 164 | 5,732,065 | 4,923,387 | 438,762 | 3,156,852 | 935,396 | 1,491,910 |
| 1982 | 166 | 6,207,417 | 5,291,468 | 472,522 | 3,553,631 | 1,217,221 | 1,571,773 |

* Total Loans = net loans + allowance for possible loan losses + unearned income on loans.

** Total Securities = U.S. Treasury securities + obligations of other U.S. government agencies + obligations of states and political subdivisions + all other securities + trading account securities.

SOURCE: Federal Deposit Insurance Corporation, Bank Operating Statistics, years indicated.

## TABLE VI - 2

## SELECTED BANKING RATIOS FOR MONTANA AND THE U.S.
(medians for FDIC-insured banks)

| | 1970 | | 1980 | | 1981 | | 1982 | |
|---|---|---|---|---|---|---|---|---|
| | MT | US | MT | US | MT | US | MT | US |
| Total Loans to Deposits | NA | 59.4 | 65.1 | 62.1 | 61.1 | 60.3 | 61.7 | 59.9 |
| Total Loans to Assets | NA | NA | 57.9 | 54.6 | 54.0 | 52.6 | 54.7 | 51.9 |
| Allowance for Possible Loan Loss to Total Loans | 1.5 | 1.5 | 0.9 | 1.0 | 0.9 | 1.0 | 0.9 | 1.0 |
| Equity Capital to Deposits | NA | NA | 8.8 | 9.4 | 9.0 | 9.6 | 9.3 | 9.6 |
| Net Income to Assets | 1.0 | NA | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 |
| Net Income to Equity Capital | 13.4 | 12.4 | 15.7 | 14.0 | 15.0 | 13.3 | 14.8 | 12.9 |

SOURCE: Federal Deposit Insurance Corporation, Bank Operating Statistics, years indicated.

## TABLE VI - 3

## CHANGE IN MONTANA BANKING CONDITIONS: 1982-1983
(figures in thousands)

| | 12/31/82 | 12/31/83 | Change | Percent Change |
|---|---|---|---|---|
| State Banks & Trust Companies: | | | | |
| Total Securities | $ 836,709 | $ 1,002,659 | +165,950 | +19.8% |
| Total Loans | 1,524,807 | 1,661,190 | +136,363 | +8.9% |
| Total Equity Capital | 243,524 | 270,528 | +27,004 | 11.1% |
| Total Deposits | 2,525,465 | 2,819,937 | +294,472 | +11.7% |
| Total Assets | 2,883,340 | 3,218,431 | +335.091 | +11.6% |
| Loans:Assets | 53.1% | 51.8% | -1.3% | |
| Loans:Deposits | 60.9% | 59.4% | -1.5% | |
| Capital and Reserve a/c's:Total Assets | 9.1% | 9.0% | -0.1% | |
| Capital and Reserve a/c's:Total Deposits | 10.4% | 10.3% | -0.1% | |
| National Banks: | | | | |
| Total Securities | $ 709,965 | $ 850,918 | +140,953 | +19.9% |
| Total Loans | 1,903,612 | 2,073,802 | +170,190 | +8.9% |
| Total Equity Capital | 230,847 | 238,359 | +7,512 | +3.3% |
| Total Deposits | 2,715,889 | 2,892,924 | +177,035 | +6.5% |
| Total Assets | 3,269,126 | 3,665,107 | +395,981 | +12.1% |
| Loans:Assets | 58.5% | 56.8% | -1.6% | |
| Loans:Deposits | 70.7% | 72.4% | +1.7% | |
| Capital and Reserve a/c's:Total Assets | 8.1% | 7.5% | -0.7% | |
| Capital and Reserve a/c's:Total Deposits | 9.8% | 9.5% | -0.3% | |

SOURCE: Montana Dept. of Commerce, Financial Institutions Division, *Abstract of Reports of Condition*, years indicated.

## TABLE VI - 4

## BANK ASSETS & LOANS BY STATE: 1982

| State | Assets (thou) | Total Loans (thou) | Ag. Loans (thou) | C&I* Loans (thou) | Loans to Indiv. (thou) | Est. Population (thou) | Assets per Capita | Total Loans per Capita |
|---|---|---|---|---|---|---|---|---|
| Alabama | $20,426,994 | $ 9,733,200 | $ 238,817 | $ 2,933,183 | $ 2,850,267 | 3,941 | $ 5,183 | $ 2,470 |
| Alaska | 3,374,212 | 1,634,347 | 15,644 | 583,270 | 218,343 | 444 | 7,600 | 3,681 |
| Arizona | 16,656,730 | 1,0,385,488 | 441,285 | 2,896,438 | 2,555,733 | 2,892 | 5,760 | 3,591 |
| Arkansas | 13,618,913 | 6,944,374 | 397,898 | 2,506,066 | 985,821 | 2,307 | 5,903 | 3,010 |
| California | 275,445,871 | 174,815,347 | 3,948,393 | 68,371,700 | 23,054,377 | 24,697 | 11,431 | 7,255 |
| Colorado | 20,285,434 | 11,660,864 | 807,618 | 4,177,005 | 2,602,572 | 3,701 | 5,481 | 3,151 |
| Connecticut | 15,551,358 | 9,153,993 | 15,371 | 3,105,506 | 2,215,943 | 3,126 | 4,975 | 2,928 |
| Delaware | 7,759,104 | 4,798,257 | 79,852 | 1,449,841 | 1,698,774 | 600 | 12,932 | 7,997 |
| Dist. of Columbia | 10,577,145 | 5,216,521 | 12,780 | 1,737,052 | 621,718 | 626 | 16,896 | 8,333 |
| Florida | 59,844,538 | 28,451,274 | 195,968 | 6,846,083 | 8,334,590 | 10,466 | 5,718 | 2,718 |
| Georgia | 30,363,487 | 15,414,748 | 305,818 | 4,744,046 | 5,135,654 | 5,648 | 5,736 | 2,729 |
| Hawaii | 6,701,778 | 3,949,070 | 31,827 | 1,173,408 | 882,988 | 997 | 6,722 | 3,961 |
| Idaho | 5,883,914 | 3,513,537 | 471,697 | 978,525 | 813,169 | 977 | 6,022 | 3,596 |
| Illinois | 158,088,477 | 93,814,937 | 2,386,908 | 45,433,899 | 10,633,899 | 11,466 | 13,788 | 8,182 |
| Indiana | 36,429,043 | 18,641,521 | 977,315 | 4,436,772 | 4,200,202 | 5,482 | 6,663 | 3,400 |
| Iowa | 25,487,761 | 12,163,586 | 3,766,004 | 2,637,815 | 2,000,440 | 2,906 | 8,771 | 4,186 |
| Kansas | 19,619,042 | 9,663,002 | 2,223,708 | 2,920,005 | 1,965,054 | 2,408 | 8,147 | 4,013 |
| Kentucky | 23,576,422 | 11,631,119 | 611,707 | 3,098,421 | 3,116,752 | 3,692 | 6,386 | 3,150 |
| Louisiana | 30,894,212 | 15,950,207 | 297,793 | 5,763,911 | 3,931,361 | 4,383 | 7,049 | 3,639 |
| Maine | 3,890,203 | 2,032,866 | 14,484 | 595,833 | 543,264 | 1,136 | 3,424 | 1,789 |
| Maryland | 20,178,836 | 9,983,519 | 63,446 | 2,754,214 | 2,337,062 | 4,270 | 4,726 | 2,338 |
| Massachusetts | 44,687,528 | 22,922,456 | 78,337 | 11,090,182 | 3,554,860 | 5,750 | 7,772 | 3,987 |
| Michigan | 58,949,357 | 30,687,877 | 477,186 | 10,117,131 | 5,165,161 | 9,116 | 6,467 | 3,366 |
| Minnesota | 38,820,513 | 21,500,225 | 2,256,379 | 7,456,290 | 3,194,807 | 4,133 | 9,393 | 5,202 |
| Mississippi | 13,694,683 | 6,932,812 | 368,159 | 1,784,872 | 1,932,809 | 2,569 | 5,331 | 2,699 |
| Missouri | 41,482,575 | 19,823,066 | 1,388,337 | 6,234,704 | 3,593,473 | 4,942 | 8,394 | 4,011 |
| Montana | 6,207,417 | 3,553,631 | 608,992 | 1,217,221 | 761,979 | 805 | 7,711 | 4,414 |
| Nebraska | 13,965,089 | 7,145,536 | 2,862,922 | 1,656,519 | 1,249,948 | 1,589 | 8,789 | 4,497 |
| Nevada | 4,584,294 | 2,421,480 | 16,852 | 584,119 | 627,814 | 876 | 5,239 | 2,764 |
| New Hampshire | 3,985,617 | 2,485,560 | 2,494 | 603,346 | 687,910 | 948 | 4,204 | 2,622 |
| New Jersey | 42,228,334 | 21,664,109 | 8,869 | 6,517,036 | 4,715,580 | 7,427 | 5,686 | 2,917 |
| New Mexico | 7,766,268 | 4,034,682 | 206,609 | 1,558,321 | 1,067,712 | 1,367 | 5,681 | 2,951 |
| New York | 520,011,425 | 308,178,865 | 1,282,321 | 166,622,161 | 24,585,156 | 17,567 | 29,602 | 17,543 |
| North Carolina | 32,452,221 | 15,984,196 | 252,659 | 5,931,194 | 4,459,656 | 6,019 | 5,392 | 2,656 |
| North Dakota | 5,783,955 | 2,952,141 | 894,716 | 861,812 | 450,699 | 672 | 8,607 | 4,708 |
| Ohio | 63,380,526 | 31,628,385 | 542,490 | 9,342,607 | 8,574,405 | 10,772 | 5,884 | 2,936 |
| Oklahoma | 29,636,063 | 16,291,172 | 1,254,472 | 6,485,577 | 2,986,970 | 3,226 | 9,187 | 5,050 |
| Oregon | 14,214,829 | 8,210,187 | 324,764 | 2,914,997 | 1,487,092 | 2,668 | 5,328 | 3,077 |
| Pennsylvania | 105,811,966 | 53,762,786 | 351,764 | 19,530,803 | 9,728,461 | 11,879 | 8,907 | 4,526 |
| Rhode Island | 8,415,905 | 4,832,916 | 326 | 1,577,412 | 639,685 | 953 | 8,831 | 5,071 |
| South Carolina | 10,267,079 | 4,646,099 | 71,717 | 1,242,315 | 1,836,942 | 3,227 | 3,182 | 1,440 |
| South Dakota | 8,782,850 | 6,017,306 | 1,266,014 | 770,064 | 3,188,374 | 694 | 12,655 | 8,670 |
| Tennessee | 28,291,694 | 14,648,683 | 346,300 | 4,874,764 | 3,718,467 | 4,656 | 6,076 | 3,146 |
| Texas | 163,423,842 | 90,209,615 | 2,555,826 | 45,477,786 | 14,347,671 | 15,329 | 10,661 | 5,885 |
| Utah | 8,230,102 | 4,462,139 | 111,681 | 1,290,615 | 1,026,440 | 1,571 | 5,239 | 2,840 |
| Vermont | 2,869,705 | 1,893,043 | 29,094 | 392,524 | 374,205 | 520 | 5,519 | 3,640 |
| Virginia | 30,212,438 | 17,695,917 | 205,522 | 4,668,872 | 5,517,365 | 5,485 | 5,508 | 3,226 |

## TABLE VI - 4
(cont.)

| State | Assets (thou) | Total Loans (thou) | Ag. Loans (thou) | C&I[*] Loans (thou) | Loans to Indiv. (thou) | Est. Population (thou) | Assets per Capita | Total Loans per Capita |
|---|---|---|---|---|---|---|---|---|
| Washington | 26,333,959 | 16,800,055 | 588,518 | 7,076,549 | 2,944,761 | 4,276 | 6,159 | 3,929 |
| West Virginia | 11,950,648 | 5,577,055 | 30,833 | 956,226 | 1,810,598 | 1,961 | 6,094 | 2,844 |
| Wisconsin | 30,449,781 | 16,581,199 | 1,043,379 | 4,624,471 | 2,739,417 | 4,745 | 6,417 | 3,494 |
| Wyoming | 4,107,921 | 2,174,914 | 253,605 | 806,773 | 470,447 | 509 | 8,071 | 4,273 |

[*] C&I - Commercial and Industrial

SOURCES: Federal Deposit Insurance Corporation, Bank Operating Statistics, 1982.
U.S. Bureau of the Census, Estimates of the Population of States, by Age, July 1, 1983, to 1983.

## TABLE VI - 5

## SELECTED BANK LOANS IN MONTANA BY TYPE*
FOR FDIC-INSURED BANKS
(in thousands)

| Year | Real Estate | Agri. Produc. | Comm. & Indus. | Consumer | Total |
|---|---|---|---|---|---|
| 1966 | $ 175,109 | $ 160,043 | $ 133,440 | $ 173,410 | $ 673,291 |
| 1967 | 188,019 | 174,019 | 148,235 | 182,218 | 724,561 |
| 1968 | 203,042 | 203,042 | 162,738 | 205,396 | 794,056 |
| 1969 | 219,836 | 198,305 | 184,217 | 225,261 | 868,421 |
| 1970 | 231,974 | 226,766 | 207,951 | 238,526 | 959,411 |
| 1971 | 266,881 | 239,758 | 230,554 | 282,548 | 1,088,493 |
| 1972 | 331,888 | 261,762 | 282,665 | 342,928 | 1,320,315 |
| 1973 | 402,176 | 315,277 | 349,538 | 408,287 | 1,564,838 |
| 1974 | 444,072 | 353,849 | 396,712 | 470,590 | 1,787,946 |
| 1975 | 487,409 | 393,642 | 422,506 | 511,415 | 1,942,575 |
| 1976 | 510,815 | 354,239 | 492,623 | 654,922 | 2,044,077 |
| 1977 | 670,847 | 462,629 | 496,365 | 645,463 | 2,359,148 |
| 1978 | 786,646 | 472,602 | 707,477 | 809,036 | 2,820,356 |
| 1979 | 833,101 | 509,958 | 754,467 | 872,959 | 3,017,916 |
| 1980 | 830,737 | 498,913 | 823,551 | 802,535 | 3,012,122 |
| 1981 | 848,972 | 544,912 | 935,396 | 771,680 | 3,156,852 |
| 1982 | 874,125 | 608,992 | 1,217,221 | 761,979 | 3,553,631 |

* selected loans do not include all types of loans and do not add to total

SOURCE: Federal Deposit Insurance Corporation, Bank Operating Statistics, years indicated.

## TABLE VII - 6

## SECURITIES ISSUED IN MONTANA

| FY | New | | Renewed | |
|---|---|---|---|---|
| | Number | Volume | Number | Volume |
| 1979 | 450 | $ 746,270,833 | 399 | $ 3,029,112,729 |
| 1980 | 588 | 4,940,904,099 | 418 | 9,858,297,995 |
| 1981 | 1,175 | 6,979,407,721 | 459 | 6,705,049,092 |
| 1982 | 1,234 | 12,042,699,935 | 510 | 17,063,783,005 |
| 1983 | 1,582 | 36,883,920,073 | 612 | 26,510,936,739 |
| 1984 | 1,702 | 67,966,927,001 | 721 | 57,005,520,464 |

SOURCE: Securities Division, Montana State Auditor's Office, September 1984.

## TABLE VII - 7

## BANKRUPTCIES IN MONTANA

| Year* | Number of Cases | | | |
|---|---|---|---|---|
| | Total | Chapter 7 | Chapter 11 | Chapter 13 |
| 1970 | 907 | 900 | 2 | 5 |
| 1971 | 962 | 948 | 4 | 10 |
| 1972 | 898 | 893 | 0 | 5 |
| 1973 | 805 | 795 | 3 | 7 |
| 1974 | 770 | 767 | 0 | 3 |
| 1975 | 865 | 853 | 3 | 9 |
| 1976 | 861 | 841 | 4 | 16 |
| 1977 | 768 | 757 | 7 | 4 |
| 1978 | 773 | 765 | 4 | 4 |
| 1979 | 898 | 891 | 4 | 3 |
| 1980 | 1,036 | 1,002 | 16 | 18 |
| 1981 | 1,178 | 1,106 | 24 | 48 |
| 1982 | 990 | 889 | 56 | 45 |
| 1983 | 993 | 851 | 101 | 41 |

* Years run from Oct. 1 of previous year to Sept. 30 of year indicated.

SOURCE: Federal Bankruptcy Court, Great Falls, Montana, September 1984.

## TABLE VI - 8

## MONTANA & REGIONAL COMMERCIAL BANK CHARACTERISTICS
(percent)

| Item | Montana | Idaho | Wyoming | N. Dakota | S. Dakota | US Mean |
|---|---|---|---|---|---|---|
| 1980-81 Deposit Growth | 6.5 | 3.1 | 8.0 | 11.9 | 44.2 | 8.4 |
| 5-Yr Deposit Growth | 9.0 | 8.3 | 12.1 | 10.2 | 15.2 | 9.6 |
| 5-Yr Compound Income Growth | 12.6 | 7.5 | 19.6 | 13.7 | 12.0 | 15.3 |
| 1980-81 Income Growth | -0.5 | -12.0 | 16.6 | 13.8 | 3.6 | 8.0 |
| 1980-81 Loan Growth | 4.8 | 6.5 | 12.0 | 4.9 | 82.3 | 9.1 |
| 1981 Loans:Assets | 53.0 | 54.4 | 51.8 | 50.0 | 66.1 | 52.1 |
| 1970-80 Population Growth | 13.4 | 37.5 | 41.9 | 5.8 | 3.6 | 11.4 |
| 1970-80 Deposit Growth | 179.6 | 273.3 | 188.7 | 215.2 | 217.8 | 144.5 |

SOURCE: Council for Community Development, Montana Economic Development, 1983, p. 52.

## TABLE VI - 9

## COMMERCIAL BANKING CONCENTRATIONS BY STATE: 1981
## BASED ON COMBINED TOTAL DEPOSITS OF LARGEST 10 BANKING ORGANIZATIONS
(percent of total deposits/rank in nation)

| Cumulative Percentage of Held Deposits | 1 Bank/Rank | 5 Banks/Rank | 10 Banks/Rank |
|---|---|---|---|
| Montana | 23.9/16 | 51.2/28 | 58.9/29 |
| Idaho | 36.0/9 | 85.8/7 | 93.9/8 |
| Wyoming | 16.0/29 | 46.6/30 | 59.0/28 |
| North Dakota | 16.2/27 | 43.5/32 | 50.8/38 |
| South Dakota | 22.9/19 | 49.5/29 | 58.3/30 |
| US Median, including Dist. of Columbia | 17.1 | 51.5 | 60.3 |

SOURCE: Council for Economic Development, Inc., Montana Economic Development, 1983, p. 61.

## TABLE VI - 10

## MONTANA DEPOSITORY INSTITUTIONS
(deposits per capita in thousands)

| Item | Commercial Banks | Mutual Banks | Savings & Loans | Credit Unions | Total |
|---|---|---|---|---|---|
| 1970 Total Deposits: | | | | | |
| Montana | 1,653 | 0 | 246 | 43 | 1,942 |
| US | 480,711 | 71,580 | 141,620 | 15,523 | 709,434 |
| 1980 Total Deposits: | | | | | |
| Montana | 4,622 | 0 | 967 | 275 | 5,864 |
| US | 1,481,161 | 153,501 | 498,650 | 65,743 | 2,199,055 |
| 1970 Deposits per Capita: | | | | | |
| Montana | 2,382 | 0 | 354 | 62 | 2,789 |
| US | 2,364 | 352 | 697 | 76 | 3,490 |
| 1980 Deposits per Capita: | | | | | |
| Montana | 5,873 | 0 | 1,229 | 349 | 7,451 |
| US | 6,539 | 678 | 2,201 | 290 | 9,709 |

SOURCES: National Credit Union Administration, National Credit Union Administration State Chartered Credit Unions: 1970 and 1980 annual reports and Federal Deposit Insurance Corporation, Bank Operating Statistics, 1980, table prepared by Council for Community Development, Inc., Montana Economic Development, 1983, p. 65.

## TABLE VI - 11

## MONTANA & U.S. GROWTH TRENDS: 1970 - 1980
(in percent)

| | Montana | US |
|---|---|---|
| Population Growth | 13.3 | 11.4 |
| Commercial Bank Deposit Growth | 179.6 | 144.5* |
| Commercial & Industrial Loan Growth | 296.2 | 249.0 |
| Total Depository Institution Deposit Growth | 202.0 | 210.0 |

* figure excludes foreign deposits

SOURCE: Council for Community Development, Inc., Montana Economic Development, 1983, p. 50.

## TABLE VI - 12

## MONTANA DEPOSITORY INSTITUTIONS
(percent of market)

| | 1970 | | 1980 | |
|---|---|---|---|---|
| | Montana | US | Montana | US |
| Commercial Banks | 85.1 | 67.8 | 78.8 | 76.4 |
| Mutual Banks | 0 | 10.0 | 0 | 7.0 |
| Savings & Loans | 12.7 | 20.0 | 16.5 | 22.7 |
| Credit Unions | 2.2 | 2.2 | 4.7 | 3.0 |
| Total: | 100.0 | 100.0 | 100.0 | 100.0 |

SOURCE: Council for Economic Development, Inc., Montana Economic Development, 1983, p. 66.

## TABLE VI - 13

## MONTANA SAVINGS & LOAN STATISTICS
(Federal Home Loan Bank Members)

| Year | Number of S&Ls | First Mortgage Loans | Other Loans | Cash & Secur. | Total Assets | Savings | Net Worth | Total Liabilities |
|---|---|---|---|---|---|---|---|---|
| 1970 | 12 | 239,943,634 | 2,179,019 | 25,271,700 | 277,566,797 | 245,664,351 | 20,687,363 | 256,879,434 |
| 1971 | 12 | 284,487,605 | 3,395,447 | 29,908,110 | 332,983,378 | 288,184,307 | 22,826,533 | 310,156,845 |
| 1972 | 12 | 334,90,961 | 4,666,903 | 35,428,165 | 387,332,886 | 339,771,494 | 25,638,103 | 361,694,783 |
| 1973 | 12 | 381,154,479 | 6,654,138 | 35,540,201 | 438,160,775 | 329,864,805 | 29,345,400 | 408,815,375 |
| 1974 | 12 | 423,140,935 | 9,691,616 | 32,386,514 | 483,218,261 | 415,631,396 | 32,571,457 | 450,646,804 |
| 1975 | 12 | 492,822,913 | 10,797,881 | 44,874,808 | 571,898,021 | 500,571,147 | 36,2,424 | 535,895,597 |
| 1976 | 12 | 598,72,945 | 10,842,755 | 56,260,743 | 689,551,863 | 595,80,972 | 41,61,301 | 648,490,562 |
| 1977 | 12 | 726,22,744 | 8,500,218 | 64,945,084 | 829,441,224 | 698,485,873 | 48,137,110 | 781,304,114 |
| 1978 | NA | NA | NA | NA | NA | NA | NA | NA |
| 1979 | 12 | 925,290,124 | 13,957,537 | 80,854,387 | 1,065,691,415 | 882,917,462 | 64,328,358 | 1,001,363,057 |
| 1980 | 12 | 949,578,207 | 14,389,072 | 107,398,651 | 1,121,774,902 | 966,966,433 | 64,831,055 | 1,056,943,847 |
| 1981 | 13 | 958,528,453 | 19,109,817 | 130,989,782 | 1,172,383,773 | 1,013,096,427 | 52,176,121 | 1,120,207,652 |
| 1982 | 11 | 905,899,849 | 33,166,759 | 137,497,371 | 1,127,994,893 | 977,978,988 | 44,323,451 | 1,083,671,442 |
| 1983 | 11 | 912,385,918 | 52,645,717 | 138,728,616 | 1,159,539,248 | 1,026,236,182 | 51,037,491 | 1,108,501,757 |

NA - not available

SOURCES: Federal Home Loan Bank of Seattle, Directory of Members, 1980 - 1984.
Federal Home Loan Bank of Spokane, Directory of Members, 1971 - 1978.

TABLE VI - 14

## SAVINGS & LOANS ASSOCIATIONS SELECTED FINANCIAL ITEMS: 1981

(millions)

| Region, Division, and State | Number of Assns. | Total Assets | Mortgage Loans Outstanding | Savings Capital |
|---|---|---|---|---|
| Total* | 4,292 | $ 664,123 | $ 518,864 | $ 523,577 |
| United States | 4,278 | 661,247 | 517,202 | 521,642 |
| Mountain States: | 150 | 32,068 | 24,749 | 23,789 |
| Montana | 14 | 1,176 | 952 | 1,016 |
| Idaho | 9 | 1,090 | 888 | 887 |
| Wyoming | 12 | 1,058 | 773 | 901 |
| Colorado | 46 | 10,949 | 8,469 | 7,926 |
| New Mexico | 33 | 2,777 | 2,157 | 2,282 |
| Arizona | 12 | 7,170 | 5,224 | 5,506 |
| Utah | 16 | 5,271 | 4,305 | 3,351 |
| Nevada | 8 | 2,577 | 1,981 | 1,920 |

* includes states, Guam, and Puerto Rico

SOURCE: U.S. Bureau of the Census, Statistical Abstract of the United States, 1984, p. 514; Federal Home Loan Bank Board, Asset and Liability Trends, 1981.

## TABLE VI - 15

## SELECTED BALANCE SHEET ITEMS FOR ALL OPERATING SAVINGS & LOAN ASSOCIATIONS IN MONTANA*

| Items | 1955 | 1960 | 1965 | 1970 | 1975 | 1978 | 1979 | 1980 | 1981 | 1982 |
|---|---|---|---|---|---|---|---|---|---|---|
| Number of Associations | 20 | 18 | 17 | 16 | 16 | 15 | 15 | 13 | 14 | 13 |
| Mortgage Loans & Contracts | 59,291 | 108,903 | 180,191 | 242,166 | 487,133 | 867,336 | 925,326 | 941,785 | 952,063 | 840,522** |
| Other Loans | 247 | 810 | 1,355 | 2,153 | 10,638 | 13,641 | 21,406 | 23,937 | 23,166 | 35,775 |
| Real Estate Owned | 56 | 236 | 531 | 514 | 949 | 186 | 157 | 1,306 | 2,719 | 4,100 |
| Cash & Investment Securities | 10,946 | 13,576 | 21,737 | 25,801 | 49,682 | 78,848 | 82,365 | 108,578 | 143,966 | 145,526 |
| Fixed Assets - Net | 854 | 2,853 | 3,830 | 4,721 | 11,070 | 19,559 | 23,854 | 25,880 | 27,139 | 25,739 |
| Savings Capital | 65,557 | 116,408 | 189,767 | 248,126 | 504,586 | 825,127 | 890,741 | 968,755 | 1,016,241 | 983,572 |
| FHLB Advances | 575 | 886 | 2,360 | 3,745 | 13,738 | 69,937 | 74,097 | 52,088 | 6,494 | 66,255 |
| Other Borrowed Money | 157 | 18 | 15 | 0 | 1,350 | 9,266 | 11,051 | 8,951 | 12,864 | 14,466 |
| Net Worth | 4,536 | 8,898 | 14,801 | 21,000 | 36,442 | 57,681 | 64,837 | 64,933 | 53,002 | 45,114 |
| Total Assets; Total Liabilities & Net Worth | 72,396 | 128,366 | 211,285 | 280,345 | 576,436 | 997,242 | 1,074,613 | 1,123,595 | 1,176,420 | 1,129,409** |

* including building & loan associations, cooperative banks, and homestead associations.

** net of contra-assets, as provided in regulatory change adopted in July, 1982.

SOURCE: Federal Home Loan Bank Board, Asset and Liability Trends, December 1983.

## TABLE VI - 16

## NON-FSLIC INSURED SAVINGS & LOAN ASSOCIATIONS

| | Montana | United States |
|---|---|---|
| December 31, 1979: | | |
| Number of Associations | 3 | 645 |
| Total Assets (in thousands) | 8,482 | 10,855,480 |
| December 31, 1980: | | |
| Number of Associations | 1 | 589 |
| Total Assets (in thousands) | 1,898 | 12,245,834 |
| December 31, 1981: | | |
| Number of Associations | 1 | 513 |
| Total Assets (in thousands) | 4,410 | 13,099,020 |
| December 31, 1982: | | |
| Number of Associations | 1 | 483 |
| Total Assets* (in thousands) | 9,398 | 15,054,608 |
| Percent to Assets of All Associations | .001 | 2.147 |
| Percent to Assets Held in Each State | .83 | 0 |

* net of contra-asset items, as provided in regulatory change adopted in 7/82

SOURCE: Home Loan Bank Board, Assets and Liability Trends, December 1983.

## TABLE VI - 17

## NATURAL PERSON FEDERAL CREDIT UNIONS BY STATE
(December 31, 1983)

| State | Number | Assets in Millions | Percent Change 1982 - 1983 |
|---|---|---|---|
| Montana | 93 | 262 | 17.0 |
| Idaho | 54 | 197 | 15.2 |
| Wyoming | 53 | 156 | 13.9 |
| United States | 10,962 | 54,479 | NA |

SOURCE: National Credit Union Administration, 1983 Annual Report of the National Credit Union Administration, 1984.

## TABLE VI - 18

## ASSETS, LIABILITIES, & EQUITY OF OPERATING FEDERAL CREDIT UNIONS IN MONTANA

(in thousands)

| Year | Number | Total Assets | Loans Out-standing | Total Invest. | Total Liabil. | Notes Payable | Accounts Payable & Other Liabil.* | Savings | Regular Reserve | Other Reserve** | Undivided Earnings |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1960 | 108 | 14,184 | 11,527 | NA | 14,184 | 344 | 39 | 12,485 | 558 | 39 | 718 |
| 1970 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1971 | 120 | 50,073 | 42,092 | 5,312 | 50,073 | 1,391 | 558 | 43,012 | 2,894 | 662 | 1,555 |
| 1972 | 117 | 59,396 | 47,865 | 7,891 | 59,396 | 1,465 | 664 | 51,516 | 3,274 | 739 | 1,737 |
| 1973 | 116 | 69,484 | 56,656 | 8,720 | 69,484 | 1,589 | 755 | 60,626 | 3,698 | 823 | 1,992 |
| 1974 | 114 | 79,933 | 63,913 | 9,008 | 79,933 | 1,745 | 2,174 | 70,080 | 3,989 | 935 | 1,009 |
| 1975 | 112 | 97,410 | 75,988 | 16,006 | 97,410 | 3,035 | 2,965 | 85,182 | 4,520 | 827 | 881 |
| 1976 | 112 | 120,033 | 96,538 | 16,663 | 120,033 | 6,667 | 3,363 | 102,934 | 5,197 | 766 | 1,105 |
| 1977 | 108 | 145,445 | 118,315 | 19,482 | 145,445 | 12,565 | 4,281 | 120,368 | 5,808 | 1,138 | 1,284 |
| 1978 | 108 | 171,775 | 140,102 | 25,195 | 171,775 | 18,306 | 3,582 | 140,889 | 4,700 | 1,314 | 1,984 |
| 1979 | 111 | 168,174 | 137,180 | 23,718 | 168,174 | 9,490 | 3,657 | 145,275 | 5,607 | 1,747 | 2,352 |
| 1980 | 106 | 175,521 | 124,311 | 43,645 | 175,521 | 3,203 | 2,634 | 159,380 | 5,769 | 2,114 | 2,422 |
| 1981 | 101 | 140,881 | 134,035 | 48,813 | 190,881 | 1,471 | 2,579 | 173,552 | 5,857 | 2,822 | 3,601 |
| 1982 | 95 | 223,621 | 132,375 | 80,939 | 223,621 | 2,071 | 3,010 | 204,774 | 6,333 | 3,861 | 3,572 |
| 1983 | 93 | 261,759 | 158,036 | 92,369 | 261,759 | 2,504 | 2,961 | 242,644 | 6,905 | 3,759 | 4,985 |

* includes year-end dividends payable

** reserves for contingencies, supplemental reserves, and reserves for losses.

SOURCE: National Credit Union Administration, Annual Report of the National Credit Union Association, years indicated.

## TABLE VI - 19

### ASSETS, LIABILITIES, & EQUITY OF OPERATING FEDERALLY INSURED CREDIT UNIONS IN MONTANA (in thousands)

| Year | Number | Total Assets | Loans Outstanding | Total Invest. | Total Liabil. | Notes Payable | Accounts Payable & Other Liabil.* | Members' Savings | Regular Reserve | Other Reserve** | Undivided Earnings |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1960 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1970 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| 1971 | 2 | 2,644 | 1,447 | 1,161 | 2,644 | 10 | 164 | 2,325 | 88 | 9 | 49 |
| 1972 | 2 | 3,741 | 1,724 | 1,855 | 3,741 | 10 | 28 | 3,508 | 106 | 9 | 81 |
| 1973 | 2 | 3,517 | 1,825 | 1,502 | 3,517 | 32 | 32 | 3,270 | 117 | 22 | 45 |
| 1974 | 5 | 10,582 | 7,352 | 1,920 | 10,582 | 880 | 199 | 8,854 | 481 | 35 | 135 |
| 1975 | 10 | 22,029 | 18,444 | 2,267 | 22,029 | 540 | 540 | 20,054 | 729 | 26 | 140 |
| 1976 | 24 | 54,367 | 44,161 | 4,309 | 54,367 | 2,328 | 1,348 | 48,104 | 1,781 | 478 | 330 |
| 1977 | 25 | 98,433 | 71,710 | 21,943 | 98,433 | 13,395 | 1,701 | 79,281 | 2,461 | 989 | 607 |
| 1978 | 25 | 128,034 | 96,614 | 25,762 | 128,034 | 23,563 | 819 | 98,320 | 3,500 | 1,207 | 624 |
| 1979 | 25 | 137,769 | 100,830 | 31,353 | 137,769 | 25,364 | 1,185 | 105,467 | 3,612 | 1,251 | 890 |
| 1980 | 25 | 134,645 | 96,047 | 32,086 | 134,645 | 12,490 | 1,649 | 115,139 | 3,910 | 406 | 1,050 |
| 1981 | 25 | 135,780 | 96,752 | 24,664 | 135,780 | 13,666 | 1,670 | 115,043 | 3,153 | 345 | 1,395 |
| 1982 | 24 | 153,786 | 97,985 | 44,554 | 153,786 | 15,198 | 2,103 | 130,174 | 3,877 | 489 | 1,943 |
| 1983 | 23 | 167,491 | 124,258 | 36,201 | 167,941 | 12,438 | 2,428 | 147,457 | 4,323 | 655 | 639 |

* includes year-end dividends payable

** reserves for contingencies, supplemental reserves, and reserves for losses.

SOURCE: National Credit Union Administration, Annual Report of the National Credit Union Association, years indicated.

## TABLE VI - 20

## PROPERTY & CASUALTY INSURANCE IN MONTANA

| Year | Home Offices | Total Direct Written Premiums (000's) | Premium Taxes (000's) |
|---|---|---|---|
| 1970 | 2 | 93,329 | 4,578 |
| 1971 | 3 | 108,597 | 5,019 |
| 1972 | NA | NA | NA |
| 1973 | NA | NA | NA |
| 1974 | NA | 148,075 | 7,367 |
| 1975 | 3 | 170,646 | 8,323 |
| 1976 | 3 | 210,740 | 9,483 |
| 1977 | 5 | 238,779 | 11,158 |
| 1978 | 5 | 271,639 | 12,738 |
| 1979 | 4 | 291,238 | 14,367 |
| 1980 | 5 | 310,308 | 11,716 |
| 1981 | 5 | 325,547 | 1,4,264 |
| 1982 | 5 | 343,354 | 20,318 |
| 1983 | 5 | NA | NA |

SOURCE: Insurance Information Institute, Insurance Facts, years indicated.

## TABLE VI - 21

### PURCHASE OF ORDINARY LIFE INSURANCE
(in hundred thousand dollars)

| Year | Montana | Idaho | Wyoming | United States |
|---|---|---|---|---|
| 1967 | 306 | 317 | 143 | 94,694 |
| 1968 | 337 | 356 | 153 | 103,944 |
| 1969 | 370 | 366 | 167 | 113,500 |
| 1970 | 408 | 402 | 203 | 122,820 |
| 1971 | 436 | 447 | 210 | 132,130 |
| 1972 | 480 | 504 | 231 | 145,479 |
| 1973 | 571 | 564 | 263 | 162,798 |
| 1974 | 601 | 665 | 352 | 182,455 |
| 1975 | 650 | 747 | 354 | 188,003 |
| 1976 | 724 | 890 | 436 | 213,784 |
| 1977 | 899 | 1,067 | 510 | 247,453 |
| 1978 | 1,019 | 1,294 | 622 | 283,067 |
| 1979 | 1,119 | 1,401 | 762 | 329,571 |
| 1980 | 1,302 | 1,680 | 895 | 385,575 |
| 1981 | 1,490 | 2,111 | 1,013 | 463,843 |
| 1982 | 2,011 | 2,636 | 1,257 | 585,444 |

SOURCES: Life Insurance Marketing & Research Association, & Institute of Life Insurance. Series includes mass-marketed ordinary insurance.

## TABLE VI - 22

## LIFE INSURANCE IN MONTANA
(in thousands of dollars)

| Year | Number of Companies | Life Ins. in Force | Avg. Amt. of Life Ins. in Force per Family | Purchase of Ordinary Life Ins. |
|---|---|---|---|---|
| 1960 | NA | NA | NA | 194,000 |
| 1970 | 4 | 3,811,000 | 16.7 | 408,000 |
| 1971 | 5 | 4,108,000 | 17.4 | 436,000 |
| 1972 | 4 | 4,443,000 | 18.2 | 480,000 |
| 1973 | 4 | 4,825,000 | 19.5 | 578,000 |
| 1974 | 4 | 5,510,000 | 20.2 | 622,000 |
| 1975 | 4 | 6,066,000 | 22.8 | 650,000 |
| 1976 | 3 | 6,642,000 | 24.4 | 724,000 |
| 1977 | 3 | 7,417,000 | 26.7 | 899,000 |
| 1978 | 3 | 8,243,000 | 28.2 | 1,019,000 |
| 1979 | 3 | 9,432,000 | 31.8 | 1,119,000 |
| 1980 | 3 | 10,300,000 | 34.9 | 1,302,000 |
| 1981 | 3 | 12,402,000 | 38.6 | 1,557,000 |
| 1982 | 2 | 13,244,000 | 40.6 | 2,011,000 |

SOURCE: American Counsel of Life Insurance, Life Insurance Fact Book, years indicated.

## TABLE VI - 23

## REAL ESTATE & MORTGAGES OWNED BY LIFE INSURANCE COMPANIES IN MONTANA
(in thousands of dollars)

| | Real Estate Owned By Life Ins. Companies | | | Mortgages Owned By US Life Ins. Companies | | |
|---|---|---|---|---|---|---|
| Year | Farm | Non-Farm | Total | Farm | Non-Farm | Total |
| 1970 | 100 | 3,100 | 3,200 | 109,900 | 108,900 | 218,800 |
| 1971 | NA | NA | NA | 114,400 | 101,300 | 215,700 |
| 1972 | NA | NA | NA | 114,900 | 97,300 | 212,200 |
| 1973 | NA | NA | NA | 127,100 | 93,100 | 220,200 |
| 1974 | 100 | 5,300 | 5,400 | 138,300 | 94,300 | 232,600 |
| 1975 | NA | NA | NA | 149,500 | 88,600 | 238,100 |
| 1976 | NA | NA | NA | 166,300 | 96,300 | 262,600 |
| 1977 | NA | NA | NA | 193,000 | 96,800 | 289,800 |
| 1978 | NA | NA | NA | 251,000 | 116,700 | 387,700 |
| 1979 | - | 8,300 | 8,300 | NA | NA | NA |
| 1980 | NA | NA | NA | 377,200 | 165,900 | 543,100 |
| 1981 | NA | NA | NA | 374,500 | 165,400 | 539,900 |
| 1982 | NA | NA | NA | 376,300 | 156,000 | 532,300 |

SOURCE: American Counsel of Life Insurance, Life Insurance Fact Book, years indicated.

## TABLE VI - 24

## PREMIUMS & PAYMENTS FOR LIFE & HEALTH INSURANCE IN MONTANA

(in thousands of dollars)

| Year | Premium Receipts for Life Ins. | Premium Receipts for Health Ins. | Life Ins. & Annuity Benefit Payments | Payment to Life Ins. Beneficiaries |
|---|---|---|---|---|
| 1970 | NA | NA | 47,000 | NA |
| 1971 | NA | NA | 47,100 | 20,600 |
| 1972 | NA | NA | 51,700 | 22,700 |
| 1973 | 70,000 | 55.000 | 55,600 | 23,600 |
| 1974 | 76,000 | 62,000 | 57,200 | 23,400 |
| 1975 | 80,000 | 61,000 | 60,700 | 25,700 |
| 1976 | 86,000 | 67,000 | 66,600 | 25,900 |
| 1977 | 94,000 | 74,000 | 67,700 | 26,100 |
| 1978 | 102,000 | 82,000 | 75,400 | 28,900 |
| 1979 | 109,000 | 86,000 | 88,500 | 30,400 |
| 1980 | 114,000 | 88,000 | 107,100 | 37,300 |
| 1981 | 121,000 | 97,000 | 118,600 | 40,000 |
| 1982 | 126,000 | 105,000 | 136,800 | 43,200 |

SOURCE: American Counsel of Life Insurance, Life Insurance Fact Book, years indicated.

## TABLE VI - 25

## PREMIUM RECEIPTS OF U.S. LIFE INSURANCE COMPANIES BY STATE
(dollar amounts in millions)

| | 1980 | | 1981 | | 1982 | |
|---|---|---|---|---|---|---|
| | Life | Health | Life | Health | Life | Health |
| Montana | 114 | 88 | 121 | 97 | 126 | 105 |
| Idaho | 130 | 81 | 141 | 88 | 146 | 94 |
| Wyoming | 73 | 62 | 84 | 76 | 88 | 83 |
| Total US | 37,164 | 28,676 | 39,423 | 31,136 | 41,575 | 34,364 |

SOURCE: American Council of Life Insurance, Life Insurance Fact Book, 1983.

## TABLE VI - 26

## REAL ESTATE OWNED BY U.S. LIFE INSURANCE COMPANIES: 1982
(dollar amounts in thousands)

| | Farm | Other | Total |
|---|---|---|---|
| Montana | * | 8,300 | 8,300 |
| Idaho | 4,000 | 8,200 | 12,200 |
| Wyoming | 900 | 1,300 | 2,200 |
| Total U.S. | 241,400 | 12,765,900 | 13,007,300 |

* less than $50,000

SOURCE: American Council of Life Insurance, Life Insurance Fact Book, 1983.

## TABLE VI - 27

## MORTGAGES OWNED BY U.S. LIFE INSURANCE COMPANIES
BY TYPE: 1982
(in thousands)

| | Farm | Non-Farm | Other |
|---|---|---|---|
| Montana | 376,300 | 156,000 | 532,300 |
| Idaho | 261,000 | 290,500 | 551,500 |
| Wyoming | 135,500 | 163,600 | 299,100 |
| Total U.S. | 12,805,200 | 125,913,600 | 138,718,800 |

SOURCE: American Council of Life Insurance, Life Insurance Fact Book, 1983.

## TABLE VI - 28

## NUMBER OF U.S. LIFE INSURANCE COMPANIES
MID-YEAR, 1982

| State | Number |
|---|---|
| Montana | 2 |
| Idaho | 6 |
| Wyoming | 2 |
| United States | 2,035 |

NOTE: Data are based on reports from individual state insurance departments. These companies are considered legal reserve life insurance companies by their respective state insurance departments but may not meet the requirements for this classification as set by other states.

SOURCE: American Council of Life Insurance, Life Insurance Fact Book, 1983.

## TABLE VI - 29

## LIFE INSURANCE IN FORCE & BENEFIT PAYMENTS

(applies to policies & payments in the US)

| | Policies (1,000) | Value (bil. dol.) | Avg. per Family (dol.) | Benefit* Payments (mil. dol) |
|---|---|---|---|---|
| Montana | 1,130 | 13.2 | 40,600 | 136.8 |
| Idaho | 1,371 | 15.9 | 44,000 | 174.4 |
| Wyoming | 672 | 9.5 | 48,100 | 87.6 |
| Total U.S. | 389,560 | 4,476.7 | 49,300 | 47,933.6 |

* comprises death payments, matured endowments, disability and annuity payments, surrender values, and policy dividends.

NOTE: The average amounts per family are arithmetic means. "Family" includes primary families, subfamilies, and unrelated individuals.

SOURCE: American Council of Life Insurance, Life Insurance Fact Book, 1983.

## TABLE VI - 30

## ECONOMIC DEVELOPMENT ADMINISTRATION OBLIGATED PUBLIC WORKS PROJECTS

(excludes PWIP & Emergency Job Act Projects)

| | Fiscal Year 1983 | | Cumulative FY 1966-83 | |
|---|---|---|---|---|
| | Number of Projects | EDA Investment (thousands) | Number of Projects | EDA Investment (thousands) |
| Montana | 0 | 0 | 76 | 33,948 |
| Idaho | 3 | 1,873 | 85 | 36,106 |
| Wyoming | 0 | 0 | 11 | 2,137 |
| Total U.S. | 137 | 102,268 | 4,938 | 2,938,338 |

PWIP - Public Works Impact Program
EDA - Economic Development Administration
SOURCE: U.S. Dept. of Commerce, Annual Report: Economic Development Administration, 1984.

## TABLE VI - 31

### ECONOMIC DEVELOPMENT ADMINISTRATION
### EMERGENCY JOB ACT OBLIGATED PROJECTS
### (Fiscal Year 1983)

| | Non-PWIP | | PWIP | |
|---|---|---|---|---|
| | Number of Projects | EDA Investment (thousands) | Number of Projects | EDA Investment (thousands) |
| Montana | 2 | 573 | 0 | 0 |
| Idaho | 0 | 0 | 3 | 649 |
| Wyoming | NA | NA | NA | NA |
| Total U.S. | 103 | 57,322 | 108 | 42,677 |

PWIP - Public Works Impact Program
EDA - Economic Development Administration

SOURCE: U.S. Dept. of Commerce, Annual Report: Economic Development Administration, 1984.

## TABLE VI - 32

### ECONOMIC DEVELOPMENT ADMINISTRATION
### PUBLIC WORKS IMPACT PROGRAM OBLIGATED PROJECTS
### (Includes Disaster Assistance PWIP Projects)

| | Fiscal Year 1983 | | Cumulative FY 1972-83 | |
|---|---|---|---|---|
| | Number of Projects | EDA Investment (thousands) | Number of Projects | EDA Investment (thousands) |
| Montana | 1 | 480 | 16 | 4,699 |
| Idaho | 1 | 580 | 27 | 4,076 |
| Wyoming | 0 | 0 | 4 | 1,269 |
| Total U.S. | 50 | 27,645 | 1,371 | 418,387 |

PWIP - Public Works Impact Program
EDA - Economic Development Administration

SOURCE: U.S. Dept. of Commerce, Annual Report: Economic Development Administration, 1984.

## TABLE VI - 33

## ECONOMIC DEVELOPMENT ADMINISTRATION
## ECONOMIC ADJUSTMENT ASSISTANCE PROJECTS

| | Fiscal Year 1983 | | Cumulative FY 1972-83 | |
|---|---|---|---|---|
| | Number of Projects | EDA Investment (thousands) | Number of Projects | EDA Investment (thousands) |
| Montana | 0 | 0 | 10 | 3,110 |
| Idaho | 0 | 250 | 9 | 6,770 |
| Wyoming | 0 | 0 | 2 | 269 |
| Total U.S. | 51 | 33,198 | 546 | 569,023 |

PWIP - Public Works Impact Program
EDA - Economic Development Administration

SOURCE: U.S. Dept. of Commerce, Annual Report: Economic Development Administration, 1984.

## TABLE VI - 34

## SUMMARY OF ECONOMIC DEVELOPMENT ADMINISTRATION OBLIGATED PROJECTS BY STATE, BY PROGRAM FOR FISCAL YEAR ENDING SEPTEMBER 30, 1983*

| Program | U.S. | Montana | Idaho | Wyoming |
|---|---|---|---|---|
| Public Works: | | | | |
| Number of Projects | 187 | 1 | 4 | 0 |
| Amount ($000) | 129,912 | 480 | 2,453 | 0 |
| Emergency Jobs Act: | | | | |
| Number of Projects | 211 | 2 | 3 | 0 |
| Non-PWIP (thousands) | 57,332 | 573 | 0 | 0 |
| PWIP ($000) | 42,677 | 0 | 649 | 0 |
| Technical Assistance: | | | | |
| Number of Projects | 92 | 0 | 0 | 0 |
| Amount ($000) | 7,644 | 0 | 0 | 0 |
| Planning Grants: | | | | |
| Number of Projects | 923 | 20 | 20 | 2 |
| Amount ($000) | 24,979 | 402 | 529 | 60 |
| Economic Adjustment: | | | | |
| Number of Projects | 51 | 0 | 0 | 0 |
| Amount ($000) | 33,198 | 0 | 250 | 0 |
| State Totals: | | | | |
| Number of Projects | 1,464 | 23 | 27 | 2 |
| Amount ($000) | 295,738 | 1,455 | 3,881 | 60 |

---

* does not include projects funded under Title III, Section 304, of the Public Works and Economic Development Act

SOURCE: U.S. Dept. of Commerce, Annual Report: Economic Development Administration, 1984.

## TABLE VI - 35

### SUMMARY OF ECONOMIC DEVELOPMENT ADMINISTRATION OBLIGATED PROJECTS BY STATE, BY PROGRAM CUMULATIVE TO SEPTEMBER 30, 1983[*]

(excluding drought assistance, local public works, & emergency jobs act)

| Program | Montana | Idaho | Wyoming | U.S. |
|---|---|---|---|---|
| Public Works: | | | | |
| Number of Projects | 92 | 112 | 15 | 6,309 |
| Amount ($000) | 38,647 | 40,182 | 3,406 | 3,356,724 |
| Business Development & Trade Act[**] | | | | |
| Number of Projects | 15 | 7 | 1 | 1,309 |
| Loans ($000) | 5,384 | 6,621 | 781 | 792,219 |
| Guarantees | 3,708 | 0 | 0 | 873,873[***] |
| Technical Assistance: | | | | |
| Number of Projects | 77 | 37 | 9 | 5,029 |
| Amount ($000) | 1,655 | 1,207 | 105 | 284,043 |
| Planning Grants: | | | | |
| Number of Projects | 145 | 103 | 10 | 5,201 |
| Amount ($000) | 5,958 | 4,936 | 451 | 282,148 |
| Economic Adjustment: | | | | |
| Number of Projects | 10 | 9 | 2 | 546 |
| Amount ($000) | 3,110 | 6,770 | 267 | 569,023 |
| State Totals: | | | | |
| Number of Projects | 339 | 268 | 37 | 18,394 |
| Amount ($000) | 58,463 | 59,717 | 5,010 | 6,158,037[****] |

[*] Does not include projects funded under Title III, Section 304, of the Public Works and Economic Development Act.

[**] Includes Trade Act projects for years the program was administered by the Economic Development Administration, FY 1975 - FY 1981.

[***] Agency exposure for guarantee of up to 90 percent of unpaid balance of loans.

[****] Represents current obligations and deobligations of prior year funds.

SOURCE: U.S. Dept. of Commerce, Annual Report: Economic Development Administration, 1984.

## TABLE VI - 36

## SUMMARY OF ECONOMIC DEVELOPMENT ADMINISTRATION OBLIGATED PROJECTS
## BY STATE, BY PROGRAM
## CUMULATIVE TO SEPTEMBER 30, 1983*

(including drought assistance, local public works, & emergency jobs act)

| Program | Montana | Idaho | Wyoming | U.S. |
|---|---|---|---|---|
| Public Works: | | | | |
| Number of Projects | 169 | 242 | 103 | 17,395 |
| Amount ($000) | 82,218 | 84,029 | 43,663 | 9,566,542 |
| Business Development & Trade Act** | | | | |
| Number of Projects | 15 | 7 | 1 | 1,309 |
| Loans ($000) | 5,384 | 6,621 | 781 | 792,219 |
| Guarantees | 3,708 | 0 | 0 | 878,873*** |
| Technical Assistance: | | | | |
| Number of Projects | 77 | 37 | 9 | 5,029 |
| Amount ($000) | 1,655 | 1,207 | 105 | 284,043 |
| Planning Grants: | | | | |
| Number of Projects | 145 | 103 | 10 | 5,201 |
| Amount ($000) | 5,958 | 4,936 | 451 | 282,148 |
| Economic Adjustment: | | | | |
| Number of Projects | 10 | 9 | 2 | 546 |
| Amount ($000) | 3,110 | 6,770 | 267 | 569,023 |
| State Totals: | | | | |
| Number of Projects | 416 | 398 | 125 | 29,480 |
| Amount ($000) | 102,034 | 103,564 | 45,267 | 12,367,855**** |

* Does not include projects funded under Title III, Section 304, of the Public Works and Economic Development Act.

** Includes Trade Act projects for years the program was administered by the Economic Development Administration, FY 1975 - FY 1981.

*** Agency exposure for guarantee of up to 90 percent of unpaid balance of loans.

**** Represents current obligations and deobligations of prior year funds.

SOURCE: U.S. Dept. of Commerce, Annual Report: Economic Development Administration, 1984.

## TABLE VI - 37

## SUMMARY OF ECONOMIC DEVELOPMENT ADMINISTRATION OBLIGATED PROJECTS IN MONTANA BY PROGRAM, CUMULATIVE TO SEPTEMBER 30

(including drought assistance, local public works, & emergency jobs act)

| | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|---|
| Public Works: | | | | | | | |
| Number of Projects | 151 | 153 | 162 | 164 | 165 | 166 | 169 |
| Amount (thousands) | $75,086 | $75,917 | $79,271 | $80,220 | $80,954 | $81,167 | $82,218 |
| Business Development & Trade Act*: | | | | | | | |
| Number of Projects | 10 | 10 | 12 | 15 | 15 | 15 | 15 |
| Loans (thousands) | $3,914 | $3,914 | $4,399 | $5,384 | $5,384 | $5,384 | $5,384 |
| Guarantees (thousands)** | $684 | $684 | $2,934 | $3,708 | $3,708 | $3,708 | $3,708 |
| Technical Assistance: | | | | | | | |
| Number of Projects | 72 | 73 | 77 | 77 | 77 | 77 | 77 |
| Amount (thousands) | $1,589 | $1,605 | $1,655 | $1,655 | $1,655 | $1,655 | $1,655 |
| Planning Grants: | | | | | | | |
| Number of Projects | 66 | 75 | 89 | 100 | 103 | 125 | 145 |
| Amount (thousands) | $3,141 | $3,463 | $4,128 | $4,651 | $5,099 | $5,556 | $5,958 |
| Economic Adjustment: | | | | | | | |
| Number of Projects | 2 | 4 | 7 | 8 | 10 | 10 | 10 |
| Amount (thousands) | $387 | $1,795 | $2,313 | $2,563 | $3,213 | $3,195 | $3,110 |
| State Totals: | | | | | | | |
| Number of Projects | 301 | 315 | 347 | 364 | 370 | 393 | 416 |
| Amount (thousands)*** | $84,800 | $87,378 | $94,701 | $98,182 | $100,014 | $100,666 | $102,034 |

NOTE: Does not include projects funded under Title III, Section 304 of the Public Works & Economic Development Act.

* Includes Trade Act projects for years the program was administered by the Economic Development Administration; FY 75-81.

** Agency exposure for guarantee of up to 90 percent of unpaid balance of loans.

*** Represents current obligations and deobligations of prior year funds.

SOURCE: U.S. Economic Development Administration, Annual Report, years indicated.

TABLE VI - 38

## SUMMARY OF ECONOMIC DEVELOPMENT ADMINISTRATION OBLIGATED PROJECTS IN MONTANA BY PROGRAM, CUMULATIVE TO SEPTEMBER 30

(excluding drought assistance, local public works, & emergency jobs act)

| | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|---|---|
| Public Works: | | | | | | | | |
| Number of Projects | 66 | 75 | 78 | 87 | 89 | 90 | 91 | 92 |
| Amount (thousands) | $27,374 | $31,794 | $32,825 | $36,185 | $37,142 | $37,889 | $38,169 | $38,647 |
| Business Development & Trade Act*: | | | | | | | | |
| Number of Projects | 9 | 10 | 10 | 12 | 15 | 15 | 15 | 15 |
| Loans (thousands) | $2,714 | $3,914 | $3,914 | $4,399 | $5,384 | $5,384 | $5,384 | $5,384 |
| Guarantees (thousands)** | $684 | $684 | $684 | $2,934 | $3,708 | $3,708 | $3,708 | $3,708 |
| Technical Assistance: | | | | | | | | |
| Number of Projects | 69 | 72 | 73 | 77 | 77 | 77 | 77 | 77 |
| Amount (thousands) | $1,290 | $1,589 | $1,605 | $1,655 | $1,655 | $1,655 | $1,655 | $1,655 |
| Planning Grants: | | | | | | | | |
| Number of Projects | 56 | 66 | 75 | 89 | 100 | 103 | 125 | 145 |
| Amount (thousands) | $2,679 | $3,141 | $3,463 | $4,128 | $4,651 | $5,099 | $5,556 | $5,958 |
| Economic Adjustment: | | | | | | | | |
| Number of Projects | 1 | 2 | 4 | 7 | 8 | 10 | 10 | 10 |
| Amount (thousands) | $200 | $387 | $1,795 | $2,313 | $2,563 | $3,213 | $3,195 | $3,110 |
| State Totals: | | | | | | | | |
| Number of Projects*** | 201 | 225 | 240 | 272 | 289 | 295 | 318 | 339 |
| Amount (thousands)*** | $34,256 | $41,508 | $44,286 | $51,615 | $55,104 | $56,949 | $57,668 | $58,463 |

NOTE: Does not include projects funded under Title III, Section 304 of the Public Works & Economic Development Act.

* Includes Trade Act projects for years the program was administered by the Economic Development Administration; FY 75-81.

** Agency exposure for guarantee of up to 90 percent of unpaid balance of loans.

*** Represents current obligations and deobligations of prior year funds.

SOURCE: U.S. Economic Development Administration, Annual Report, years indicated.

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## TABLE VI - 39

## SUMMARY OF ECONOMIC DEVELOPMENT ADMINISTRATION OBLIGATED PROJECTS IN MONTANA BY PROGRAM, CUMULATIVE TO SEPTEMBER 30

| | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|---|---|
| Public Works: | | | | | | | | |
| Number of Projects | 4 | 6 | 3 | 9 | 2 | 1 | 1 | 1 |
| Amount (thousands) | $2,179 | $3,023 | $1,116 | $3,361 | $961 | $750 | $280 | $480 |
| Business Development & Trade Act: | | | | | | | | |
| Number of Projects | 3 | 1 | 0 | 2 | 3 | 0 | 0 | 0 |
| Loans (thousands) | $665 | $1,200 | 0 | $485 | $986 | 0 | 0 | 0 |
| Guarantees (thousands)* | NA | 0 | 0 | $2,250 | $774 | 0 | 0 | 0 |
| Technical Assistance: | | | | | | | | |
| Number of Projects | 4 | 3 | 1 | 3 | 0 | 0 | 0 | 0 |
| Amount (thousands) | $137 | $300 | $16 | $52 | 0 | 0 | 0 | 0 |
| Planning Grants: | | | | | | | | |
| Number of Projects | 9 | 10 | 9 | 13 | 11 | 3 | 22 | 20 |
| Amount (thousands) | $608 | $471 | $335 | $681 | $537 | $460 | $464 | $402 |
| Economic Adjustment: | | | | | | | | |
| Number of Projects | 0 | 1 | 2 | 3 | 1 | 2 | 0 | 0 |
| Amount (thousands) | 0 | $187 | $1,409 | $518 | $250 | $650 | 0 | 0 |
| State Totals: | | | | | | | | |
| Number of Projects | 20 | 21 | 15 | 30 | 17 | 6 | 23 | 23 |
| Amount (thousands) | $3,589 | $5,180 | $2,876 | $7,348 | $3,508 | $1,860 | $744 | $1,455 |

NOTE: Does not include projects funded under Title III, Section 304 of the Public Works & Economic Development Act.

* Agency exposure for guarantee of up to 90 percent of unpaid balance of loans.

SOURCE: U.S. Economic Development Administration, Annual Report, years indicated.

## TABLE VI - 40

## SMALL BUSINESS ADMINISTRATION LOANS IN MONTANA

| Fiscal Year | Total* Business Loans | Total Amount** (thousands) |
|---|---|---|
| 1981 | 1,991 | $157,974 |
| 1982 | 2,457 | $201,636 |
| 1983 | 2,613 | $220,707 |
| 10 Months July 1984 | 2,766 | $247,142 |

*
** Includes direct loans and loan guarantees, but not disaster loans.
Represents current loan portfolio

SOURCE: Small Business Administration, Helena, 1984, unpublished data.

## TABLE VI - 41

## SMALL BUSINESS ADMINISTRATION LOANS & FAILURES IN MONTANA

| | New Loans | | |
|---|---|---|---|
| | Amount | Number | Failures* |
| 1980: | | | |
| 7a | $54,944.0 | 528 | 84 |
| Development Co. | $108 | 1 | |
| 1981: | | | |
| 7a | $44,685.0 | 411 | 115 |
| Development Co. | 0 | 11 | |
| 1982: | | | |
| 7a | $34,611.0 | 347 | 146 |
| Development Co. 503 | $43.0 | 1 | |
| 1983: | | | |
| 7a | $73,987.0 | 611 | 154 |
| Development Co. 503 | $173.0 | 2 | |
| Development Co. 502 | $805.1 | 2 | |
| 1984: (11 mos.) | | | |
| 7a | $58,993.9 | 498 | 134 |
| Development Co. | $286.4 | 2 | |

* best estimate

Nationally, 90 percent of the approximately 400,000 businesses that dissolve each do so for voluntary reasons, such as retirement of the owner, or a desire to enter a more profitable field. Almost ten percent of the businesses that annually cease operations do so for involuntary reasons. They may file for bankruptcy or be considered a business failure if the organization ceases to operate and leaves outstanding debt. Ninety-nine percent of failed businesses have fewer than 100 employees and over 80 percent are ten years old.

SOURCE: Small Business Administration, Helena, 1984, unpublished data.

TABLE VI - 42

## LOANS & DISCOUNTS MADE BY THE FARM CREDIT ADMINISTRATION IN MONTANA DURING THE YEAR ENDED DECEMBER 31

(dollar amounts in thousands)

| | 1979 | 1980 | 1981 |
|---|---|---|---|
| Federal Land Banks: | | | |
| Number | 924 | 989 | 928 |
| Amount | $107,451 | $143,055 | $122,638 |
| Production Credit Associations (PCA's): | | | |
| Number* | 4,881 | 5,273 | $5,748 |
| Amount | $554,540 | $637,313 | $803,357 |
| Federal Intermediate Credit Banks**: | | | |
| Discounts for OFI's | $2,264 | $21,461 | $29,835 |
| Participations with PCA's | 0 | 0 | 0 |
| Banks for Cooperatives: | | | |
| Number | 59 | 66 | 48 |
| Amount | $27,739 | $56,887 | $38,214 |
| Total Amount: | $691,994 | $858,716 | $994,004 |

*
** Number of members having loans outstanding at any time during the year.
Number not available

SOURCE: Farm Credit Administration, Annual Report of the Farm Credit Administration and the Farm Credit System, years indicated.

TABLE VI - 43

## FARMERS' HOME ADMINISTRATION LOANS IN MONTANA

|  | Indian Acquisition Loans Approved |  | Business & Industrial Loans |  |
|---|---|---|---|---|
| Year | Number | Amount | Number | Amount |
| 1971 | 1 | $ 548,000 |  |  |
| 1972 | 0 | 0 |  |  |
| 1973 | 2 | 2,500,000 |  |  |
| 1974 | 2 | 2,000,000 | 11 | $ 876,500 |
| 1975 | 0 | 0 | 5 | 1,792,500 |
| 1976 | 2 | 3,000,000 | 2 | 2,100,000 |
| 1977 | 3 | 3,250,000 | 3 | 2,199,000 |
| 1978 | 2 | 2,891,000 | 7 | 2,570,130 |
| 1979 | 0 | 0 | 18 | 11,862,000 |
| 1980 | 0 | 0 | 13 | 3,892,030 |
| 1981 | 0 | 0 | 2 | 4,066,500 |
| 1982 | 0 | 0 | 0 | 0 |
| 1983 | 1 | 1,000,000 | 0 | 0 |

SOURCE: Farmers' Home Administration, Montana, 1983-84, 1984.

## TABLE VI - 44

## FARMERS' HOME ADMINISTRATION LOANS IN MONTANA

| Year | Individual Rural Housing Loans | | 515 Rural Rental Housing Loans | |
|---|---|---|---|---|
| | Number | Amount | Number | Amount |
| 1966 | 174 | $ 1,558,200 | 1 | $ 67,170 |
| 1967 | 174 | 1,710,894 | 1 | 49,900 |
| 1968 | 175 | 1,915,050 | 0 | 0 |
| 1969 | 177 | 1,795,873 | 0 | 0 |
| 1970 | 183 | 2,015,782 | 0 | 0 |
| 1971 | 251 | 3,074,350 | 0 | 0 |
| 1972 | 272 | 3,665,870 | 3 | 200,950 |
| 1973 | 357 | 4,876,000 | 20 | 5,331,000 |
| 1974 | 345 | 5,934,000 | 18 | 4,745,000 |
| 1975 | 590 | 11,301,790 | 17 | 3,661,700 |
| 1976 | 1196 | 26,070,000 | 24 | 6,350,000 |
| 1977 | 928 | 22,697,840 | 19 | 6,780,800 |
| 1978 | 826 | 22,218,540 | 13 | 5,319,000 |
| 1979 | 727 | 21,495,000 | 16 | 5,524,000 |
| 1980 | 643 | 18,562,000 | 14 | 5,301,280 |
| 1981 | 607 | 18,343,470 | 21 | 5,876,600 |
| 1982 | 781 | 23,444,000 | 28 | 9,770,000 |
| 1983 | 464 | 14,355,040 | 3 | 1,678,030 |

SOURCE: Farmers' Home Administration, Montana 1983-84, 1984.

## TABLE VI - 45

## FARMERS' HOME ADMINISTRATION LOANS IN MONTANA

| Year | Watershed Loans | | Community Facility Loans | | Grazing Association Loans Approved | |
|---|---|---|---|---|---|---|
| | Number | Amount | Number | Amount | Number | Amount |
| 1960 | 1 | $ 337,500 | | | | |
| 1961 | 0 | 0 | | | | |
| 1962 | 0 | 0 | | | | |
| 1963 | 0 | 0 | | | 0 | 0 |
| 1964 | 0 | 0 | 1 | $ 35,000 | 3 | $ 1,100,210 |
| 1965 | 0 | 0 | 2 | 18,580 | 5 | 2,273,300 |
| 1966 | 0 | 0 | 0 | 0 | 7 | 2,757,930 |
| 1967 | 0 | 0 | 3 | 806,000 | 6 | 1,018,450 |
| 1968 | 0 | 0 | 1 | 115,000 | 5 | 1,569,340 |
| 1969 | 0 | 0 | 2 | 188,000 | 2 | 760,730 |
| 1970 | 1 | 250,000 | 0 | 0 | 3 | 1,444,000 |
| 1971 | 1 | 400,000 | 0 | 0 | 7 | 1,638,800 |
| 1972 | 1 | 270,000 | 0 | 0 | 0 | 0 |
| 1973 | 1 | 880,000 | 0 | 0 | 2 | 967,500 |
| 1974 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1975 | 1 | 785,000 | 6 | 5,024,000 | 2 | 713,000 |
| 1976 | 0 | 0 | 2 | 710,000 | 3 | 1,040,000 |
| 1977 | 0 | 0 | 3 | 2,558,700 | 0 | 0 |
| 1978 | 0 | 0 | 0 | 0 | 1 | 624,400 |
| 1979 | 0 | 0 | 2 | 3,210,000 | 1 | 850,000 |
| 1980 | 0 | 0 | 4 | 1,020,000 | 2 | 2,630,000 |
| 1981 | 0 | 0 | 4 | 1,140,000 | 0 | 0 |
| 1982 | 0 | 0 | 1 | 125,000 | 0 | 0 |
| 1983 | 0 | 0 | 2 | 1,326,000 | 0 | 0 |

SOURCE: Farmers' Home Administration, Montana, 1983-84, 1984.

## TABLE VI - 46

## FARMERS' HOME ADMINISTRATION LOANS IN MONTANA

| | Irrigation, Drainage & Soil Conservation Loans Approved | | Emergency Loans | | Water & Waste Disposal Loans | |
|---|---|---|---|---|---|---|
| Year | Number | Amount | Number | Amount | Number | Amount |
| 1941 | 2 | $ 30,480 | | | | |
| 1942 | 0 | 0 | | | | |
| 1943 | 1 | 22,000 | | | | |
| 1944 | 0 | 0 | | | | |
| 1945 | 1 | 18,000 | | | | |
| 1946 | 0 | 0 | | | | |
| 1947 | 2 | 33,000 | | | | |
| 1948 | 1 | 3,800 | | | | |
| 1949 | 1 | 43,000 | | | | |
| 1950 | 1 | 19,000 | | | | |
| 1951 | 1 | 32,000 | 54 | $ 114,955 | | |
| 1952 | 3 | 116,700 | 58 | 99,085 | | |
| 1953 | 2 | 15,500 | 62 | 128,061 | 2 | $ 100,000 |
| 1954 | 1 | 30,000 | 133 | 3,122,986 | 0 | 0 |
| 1955 | 0 | 0 | 116 | 1,384,505 | 3 | 365,000 |
| 1956 | 0 | 0 | 110 | 1,085,816 | 0 | 0 |
| 1957 | 0 | 0 | 83 | 672,221 | 0 | 0 |
| 1958 | 1 | 40,000 | 34 | 227,769 | 0 | 0 |
| 1959 | 4 | 153,000 | 16 | 112,404 | 0 | 0 |
| 1960 | 1 | 2,000 | 7 | 76,598 | 1 | 15,000 |
| 1961 | 3 | 175,000 | 4 | 46,172 | 1 | 225,000 |
| 1962 | 2 | 90,000 | 468 | 2,380,191 | 2 | 150,000 |
| 1963 | 2 | 175,000 | 355 | 1,957,885 | 0 | 0 |
| 1964 | 1 | 5,200 | 71 | 370,920 | 0 | 0 |
| 1965 | 2 | 38,600 | 193 | 1,025,221 | 3 | 108,500 |
| 1966 | 3 | 74,980 | 149 | 906,236 | 3 | 146,500 |
| 1967 | 3 | 47,000 | 23 | 276,973 | 9 | 836,750 |
| 1968 | 6 | 69,960 | 15 | 142,153 | 7 | 615,200 |
| 1969 | 0 | 0 | 6 | 30,217 | 5 | 304,000 |
| 1970 | 0 | 0 | 4 | 57,834 | 8 | 591,270 |
| 1971 | 1 | 20,000 | 3 | 71,166 | 5 | 330,800 |
| 1972 | 4 | 192,300 | 8 | 267,508 | 9 | 652,700 |
| 1973 | 1 | 4,500 | 1 | 39,500 | 8 | 622,600 |
| 1974 | 3 | 177,700 | NA | NA | 4 | 2,480,500 |
| 1975 | 3 | 101,700 | 1 | 20,650 | 12 | 3,202,000 |
| 1976 | 6 | 608,000 | 2 | 20,900 | 8 | 3,674,000 |
| 1977 | 0 | 0 | 7 | 191,250 | 9 | 1,527,800 |
| 1978 | 0 | 0 | 1,392 | 85,217,090 | 10 | 2,649,000 |
| 1979 | 1 | 33,000 | 862 | 73,449,360 | 8 | 1,931,900 |
| 1980 | 4 | 159,700 | 1,364 | 71,392,130 | 14 | 3,762,500 |
| 1981 | 3 | 162,000 | 1,690 | 77,081,400 | 12 | 4,135,000 |
| 1982 | 2 | 260,000 | 429 | 21,221,222 | 3 | 809,000 |
| 1983 | 1 | 330,000 | 57 | 3,539,300 | 2 | 324,700 |

SOURCE: Farmers' Home Administration, Montana, 1983-84, 1984.

## TABLE VI - 47

## FARMERS' HOME ADMINISTRATION LOANS IN MONTANA

| | Farm Ownership Loans | | Operating Loans Obligated | | Individual Soil & Water Loans Approved | |
|---|---|---|---|---|---|---|
| Year | Number | Amount | Number | Amount | Number | Amount |
| 1947 | | | 1374 | $ 1,477,380 | | |
| 1948 | 13 | $ 138,375 | 1242 | 1,483,410 | | |
| 1949 | 21 | 204,405 | 1317 | 1,919,075 | | |
| 1950 | 46 | 503,162 | 1461 | 2,077,835 | | |
| 1951 | 45 | 518,774 | 1361 | 2,358,247 | | |
| 1952 | 21 | 245,677 | 1290 | 3,250,167 | | |
| 1953 | 16 | 153,021 | 1351 | 3,332,681 | | |
| 1954 | 15 | 181,828 | 1370 | 3,549,964 | | |
| 1955 | 25 | 320,024 | 1274 | 3,069,089 | 25 | $ 100,540 |
| 1956 | 47 | 677,165 | 1235 | 2,973,259 | 26 | 88,430 |
| 1957 | 61 | 858,825 | 1249 | 4,168,319 | 16 | 77,932 |
| 1958 | 72 | 1,141,190 | 1085 | 3,552,371 | 21 | 88,143 |
| 1959 | 61 | 1,054,372 | 875 | 2,996,103 | 29 | 106,706 |
| 1960 | 42 | 735,887 | 837 | 3,903,027 | 8 | 30,648 |
| 1961 | 70 | 1,149,153 | 869 | 4,480,133 | 29 | 147,770 |
| 1962 | 261 | 5,210,457 | 941 | 6,678,001 | 45 | 214,400 |
| 1963 | 246 | 4,598,502 | 962 | 7,919,617 | 39 | 179,522 |
| 1964 | 214 | 4,001,204 | 1236 | 10,047,731 | 44 | 224,640 |
| 1965 | 180 | 3,219,677 | 1129 | 8,947,791 | 11 | 46,320 |
| 1966 | 205 | 4,241,966 | 1026 | 7,648,621 | 14 | 95,930 |
| 1967 | 203 | 5,178,348 | 1044 | 7,341,093 | 16 | 113,303 |
| 1968 | 153 | 3,834,439 | 939 | 6,941,082 | 12 | 89,560 |
| 1969 | 217 | 5,480,667 | 868 | 6,345,739 | 10 | 56,210 |
| 1970 | 135 | 4,341,760 | 704 | 5,993,060 | 15 | 71,000 |
| 1971 | 126 | 3,844,202 | 670 | 6,014,010 | 19 | 90,000 |
| 1972 | 173 | 6,300,841 | 678 | 6,284,110 | 7 | 55,600 |
| 1973 | 202 | 8,072,560 | 663 | 7,633,830 | 7 | 84,560 |
| 1974 | 159 | 6,309,350 | 662 | 8,418,540 | 24 | 270,600 |
| 1975 | 139 | 6,637,000 | 622 | 7,708,396 | 6 | 60,500 |
| 1976 | 119 | 6,954,250 | 429 | 6,353,660 | 50 | 917,270 |
| 1977 | 138 | 8,110,730 | 457 | 6,525,390 | 68 | 1,146,170 |
| 1978 | 143 | 9,494,580 | 486 | 7,158,120 | 72 | 1,892,160 |
| 1979 | 147 | 12,150,900 | 421 | 10,665,400 | 38 | 991,140 |
| 1980 | 155 | 14,697,190 | 298 | 9,346,330 | 55 | 1,765,290 |
| 1981 | 146 | 11,006,100 | 259 | 8,409,560 | 38 | 1,321,900 |
| 1982 | 146 | 13,078,660 | 481 | 15,119,590 | 16 | 479,050 |
| 1983 | 154 | 15,938,280 | 681 | 25,632,470 | 11 | 526,000 |

SOURCE: Farmers' Home Administration, Montana, 1983-84, 1984.

## TABLE VI - 48

## FARMERS' HOME ADMINISTRATION OPERATING LOANS IN MONTANA ACTIVE BORROWERS DELINQUENT AS OF DECEMBER 31

| | FmHA Operating Loans | | Farm Ownership Loans | | FmHA EM/EE* Loans | |
|---|---|---|---|---|---|---|
| | Number Delinq. | Percent Delinq. | Number Delinq. | Percent Delinq. | Number Delinq. | Percent Delinq. |
| 1965 | 899 | 62 | 282 | 23 | 116 | 81 |
| 1966 | 846 | 61 | 272 | 21 | 103 | 74 |
| 1967 | 835 | 63 | 339 | 25 | 81 | 79 |
| 1968 | 789 | 62 | 323 | 23 | 67 | 77 |
| 1969 | 618 | 53 | 258 | 18 | 38 | 66 |
| 1970 | 576 | 55 | 306 | 21 | 28 | 76 |
| 1971 | 462 | 49 | 275 | 19 | 22 | 88 |
| 1972 | 378 | 42 | 246 | 18 | 14 | 70 |
| 1973 | 291 | 37 | 192 | 14 | 8 | 73 |
| 1974 | 498 | 65 | 348 | 26 | 4 | 67 |
| 1975 | 527 | 62 | 320 | 24 | 5 | 63 |
| 1976 | 339 | 37 | 174 | 13 | 2 | 7 |
| 1977 | NA | NA | NA | NA | NA | NA |
| 1978 | 244 | 31 | 138 | 10 | 9 | 1 |
| 1979 | 193 | 26 | 101 | 7 | 67 | 8 |
| 1980 | 193 | 26 | 107 | 7 | 176 | 10 |
| 1981 | 232 | 29 | 150 | 10 | 322 | 15 |
| 1982 | 381 | 25 | 265 | 14 | 1239 | 27 |
| 1983 | 379 | 21 | 389 | 19 | 1678 | 39 |

*EM/EE - emergency loans (for things such as flood, fire, drought, or economic emergency)

SOURCE: Farmers' Home Administration, Montana, 1983-84, 1984.

## TABLE VI - 49

## FARMERS' HOME ADMINISTRATION
## MONTANA LOANS AS OF AUGUST 1, 1984

| Type of Loan | Number Approved | Total Dollar Volume |
|---|---|---|
| Operating Loans | 662 | $23,898,050 |
| Operating Loans (Guaranteed) | 3 | 715,000 |
| Emergency | 178 | 4,988,470 |
| Economic Emergency | 71 | 10,458,550 |
| Farm Ownership | 90 | 9,269,820 |
| Farm Ownership (Guaranteed) | 2 | 585,000 |
| Soil and Water | 4 | 62,840 |
| Total Farmer Programs: | 1,010 | 49,977,730 |
| Rural Housing | 331 | 13,032,750 |
| Community Programs | 2 | 200,000 |
| Grants | 2 | 10,000 |
| Business & Industry | 1 | 1,100,000 |
| Total, All Programs: | 1,344 | $64,310,480 |

SOURCE: Farmers' Home Administration, Bozeman, Montana, August 1984, unpublished data.

## TABLE VI - 50

## FARMERS' HOME ADMINISTRATION
## VOLUME OF LOANS IN MONTANA

| Program | FY 1979 | FY 1980 | FY 1981 | FY 1982 | FY 1983 |
|---|---|---|---|---|---|
| Community & Business: | | | | | |
| Business & Industry | $11,862,000 | $ 3,486,155 | $ 5,545,000 | 0 | 0 |
| Community Programs | | | | | |
| Water Loans | 1,464,100 | 2,601,750 | 3,552,900 | 0 | $ 124,400 |
| Water Grants | 1,013,300 | 1,043,150 | 1,085,000 | 0 | 0 |
| Sewer Loans | 467,800 | 1,160,750 | 582,100 | $ 809,000 | 200,300 |
| Sewer Grants | 280,000 | 409,700 | 0 | 0 | 0 |
| Industrial Develop. Grants | 65,500 | 425,000 | 32,300 | 0 | 0 |
| Community Facilities Loans | 3,210,000 | 1,020,000 | 1,140,000 | 125,000 | 1,326,000 |
| Totals: | 6,500,700 | 6,660,350 | 6,392,300 | 934,000 | 1,650,700 |
| Rural Housing: | | | | | |
| Section 502 | 22,430,000 | 18,500,000 | 19,700,000 | 23,494,000 | 14,355,040 |
| Section 504 Loans | 21,630 | 35,050 | 35,950 | 18,860 | 28,080 |
| Section 504 Grants | 69,500 | 91,550 | 76,020 | 52,680 | 37,920 |
| Rural Rental Housing | 5,500,000 | 5,300,000 | 6,350,000 | 9,770,000 | 1,678,030 |
| Totals: | 28,021,130 | 23,926,600 | 26,161,970 | 33,335,540 | 16,099,070 |
| Farmer Programs: | | | | | |
| Operating Loans | 10,665,400 | 12,343,706 | 8,409,560 | 15,119,590 | 25,632,470 |
| Emergency Loans | 31,657,110 | 52,064,760 | 51,920,030 | 21,221,220 | 3,539,300 |
| Economic Emergency | 41,792,250 | 31,847,214 | 25,161,370 | NA | NA |
| Farm Ownership | 12,150,900 | 13,394,307 | 11,006,100 | 13,078,660 | 15,938,280 |
| Soil & Water | 991,140 | 2,155,680 | 1,321,900 | 479,050 | 526,000 |
| Recreation Loans | 95,000 | 0 | 80,000 | 0 | 0 |
| Grazing Associations | 850,000 | 2,630,000 | 0 | 0 | 0 |
| Irrigation & Drainage | 0 | 0 | 31,000 | 0 | 0 |
| RC&D | 0 | 0 | 131,000 | 260,000 | 330,000 |
| Indian Land Acquisition | 0 | 0 | 0 | 0 | 1,000,000 |
| Totals: | 98,201,800 | 114,435,772 | 98,060,960 | 50,158,520 | 46,966,040 |
| Total Loans & Grants: | $144,585,630 | $148,508,772 | $136,160,230 | $84,428,060 | $64,715,820 |

SOURCE: Farmers' Home Administration, Montana, 1983-84, 1984.

# CHAPTER VII

# SELECTED INDUSTRIAL INFORMATION

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18 MONTANA'S PRIVATE TECHNOLOGY-INTENSIVE EMPLOYMENT, HISTORY & PROJECTIONS: 1976-1990. . . . . . . . . . . . . . . . . . . 214

FIGURE PAGE

1 EMPLOYMENT IN MONTANA PRIVATE TECHNOLOGY SECTORS: 1976-1990 . . . . . . . . . . . . . . 213

## Table VII-1

# Montana Businesses—Establishments, Employees, and Payroll by Major Industry Group: 1982 and 1981

(Excludes government employees, railroad employees, self-employed persons, etc. Size class 1 to 4 includes establishments having payroll but no employees during mid-March pay period. "D" donates figures withheld to avoid disclosure of operations of individual establishments, the other alphabetics indicate employment-size class—see footnote.)

| SIC code | Major industry group | 1982 | | | | 1981 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Number of establishments | Number of employees for week including March 12 | Payroll ($1,000) First Quarter | Payroll ($1,000) Annual | Number of establishments | Number of employees for week including March 12 | Payroll ($1000) First Quarter | Payroll ($1000) Annual |
| | **Total** | **20 720** | **196 469** | **623 981** | **2 646 657** | **20 557** | *** 205 239** | *** 609 365** | ***2 625 985** |
| .... | Agricultural services,forestry,fisheries | 220 | 847 | 1 586 | 8 150 | 219 | 913 | 1 757 | 8 623 |
| 07 | Agricultural services | 194 | 695 | 1 363 | 7 281 | 189 | 736 | 1 440 | 7 195 |
| 08 | Forestry | 25 | (C) | (D) | (D) | 27 | (C) | (D) | (D) |
| 09 | Fishing, hunting, and trapping | 1 | (A) | (D) | (D) | 3 | (A) | (D) | (D) |
| .... | Mining | 411 | 9 426 | 59 124 | 226 524 | 399 | *9 986 | *61 618 | * 255 533 |
| 10 | Metal mining | 37 | 1 557 | 10 636 | 38 844 | 27 | (G) | (D) | (D) |
| 12 | Bituminous coal and lignite mining | 13 | 1 175 | 6 773 | 37 026 | 15 | 1 240 | 8 383 | 39 953 |
| 13 | Oil and gas extraction | 328 | 5 463 | 32 552 | 123 038 | 320 | *5 330 | *26 682 | * 127 561 |
| 14 | Nonmetallic minerals, except fuels | 30 | 1 188 | 6 820 | 26 881 | 32 | (G) | (D) | (D) |
| .... | Contract construction | 1 858 | 10 030 | 36 821 | 201 996 | 1 865 | 12 338 | 43 591 | 216 80 |
| 15 | General contractors and operative builders | 598 | 3 187 | 11 375 | 65 293 | 643 | 4 157 | 12 608 | 63 286 |
| 16 | Heavy construction contractors | 212 | 2 180 | 8 929 | 55 953 | 205 | 2 975 | 12 837 | 72 609 |
| 17 | Special trade contractors | 1 048 | 4 663 | 16 517 | 80 750 | 1 017 | 5 206 | 18 145 | 80 906 |
| .... | Manufacturing | 973 | 19 677 | 89 185 | 381 408 | 955 | 22 617 | 96 914 | 411 789 |
| 20 | Food and kindred products | 110 | 3 407 | 14 381 | 55 055 | 103 | 3 427 | 12 954 | 54 821 |
| 22 | Textile mill products | 2 | (C) | (D) | (D) | 1 | (C) | (D) | (D) |
| 23 | Apparel and other textile products | 9 | 62 | 160 | 701 | 14 | 86 | 182 | 1 041 |
| 24 | Lumber and wood products | 328 | 6 232 | 27 384 | 133 155 | 343 | 8 471 | 39 475 | 158 181 |
| 25 | Furniture and fixtures | 14 | 164 | 476 | 2 139 | 15 | 223 | 668 | 2 535 |
| 26 | Paper and allied products | 3 | (F) | (D) | (D) | 3 | (F) | (D) | (D) |
| 27 | Printing and publishing | 156 | 2 421 | 7 620 | 29 814 | 150 | 2 553 | 6 852 | 28 647 |
| 28 | Chemicals and allied products | 24 | 481 | 2 763 | 12 031 | 23 | 473 | 2 272 | 10 944 |
| 29 | Petroleum and coal products | 9 | 855 | 5 879 | 26 683 | 8 | 982 | 5 558 | 26 659 |
| 30 | Rubber and misc. plastics products | 10 | 112 | 269 | 884 | 10 | 81 | 200 | 1 087 |
| 31 | Leather and leather products | 7 | 68 | 99 | 373 | 7 | 64 | 123 | 550 |
| 32 | Stone, clay, and glass products | 93 | 970 | 3 808 | 19 497 | 89 | 898 | 3 163 | 16 572 |
| 33 | Primary metal industries | 13 | (G) | (D) | (D) | 14 | (G) | (D) | (D) |
| 34 | Fabricated metal products | 47 | 833 | 3 489 | 13 282 | 45 | 1 174 | 4 402 | 22 816 |
| 35 | Machinery, except electrical | 63 | 639 | 2 427 | 8 808 | 58 | 547 | 1 716 | 8 115 |
| 36 | Electric and electronic equipment | 14 | 342 | 1 381 | 4 963 | 10 | 398 | 1 180 | 5 375 |
| 37 | Transportation equipment | 11 | 64 | 178 | 918 | 11 | 95 | 204 | 953 |
| 38 | Instruments and related products | 13 | 150 | 583 | 2 725 | 8 | 92 | 345 | 1 634 |
| 39 | Miscellaneous manufacturing industries | 40 | 468 | 1 601 | 6 199 | 35 | 410 | 1 154 | 5 034 |
| – | Administrative and auxiliary | 7 | 80 | 429 | 1 252 | 8 | 65 | 438 | 1 371 |
| .... | Transportation and other public utilities | 1 096 | 16 231 | 76 633 | 319 006 | 1 060 | *16 313 | *71 064 | * 299 169 |
| 41 | Local and interurban passenger transit | 68 | 1 148 | 2 397 | 10 454 | 69 | 1 103 | 2 074 | 8 776 |
| 42 | Trucking and warehousing | 494 | 5 104 | 22 338 | 92 108 | 476 | 4 843 | 20 762 | 91 108 |
| 44 | Water transportation | 4 | (A) | (D) | (D) | 3 | (A) | (D) | (D) |
| 45 | Transportation by air | 66 | 697 | 2 955 | 12 315 | 57 | 828 | 3 331 | 14 267 |
| 46 | Pipe lines, except natural gas | 6 | 43 | 345 | 1 317 | 8 | 74 | 444 | 2 059 |
| 47 | Transportation services | 88 | 404 | 957 | 4 279 | 71 | 379 | 826 | 3 511 |
| 48 | Communication | 158 | 4 639 | 23 185 | 94 774 | 161 | 5 250 | 23 531 | 95 906 |
| 49 | Electric, gas, and sanitary services | 210 | 4 159 | 24 522 | 103 100 | 214 | *3 817 | *20 026 | *83 238 |
| .... | Wholesale trade | 1 764 | 16 488 | 66 170 | 267 708 | 1 798 | 16 971 | 62 670 | 262 786 |
| 50 | Wholesale trade-durable goods | 923 | 9 064 | 38 253 | 151 367 | 921 | 9 551 | 36 962 | 151 352 |
| 51 | Wholesale trade-nondurable goods | 822 | 7 142 | 26 474 | 110 276 | 851 | 7 049 | 23 764 | 103 654 |
| -- | Administrative and auxiliary | 19 | 282 | 1 443 | 6 065 | 26 | 371 | 1 945 | 7 780 |
| .... | Retail trade | 6 048 | 55 678 | 107 349 | 458 718 | 5 783 | 54 774 | 100 889 | 437 637 |
| 52 | Building materials & garden supplies | 428 | 2 772 | 7 658 | 32 911 | 438 | 2 994 | 7 505 | 32 713 |
| 53 | General merchandise stores | 165 | 4 770 | 9 934 | 42 291 | 178 | 4 815 | 9 632 | 40 591 |
| 54 | Food stores | 688 | 7 993 | 20 181 | 85 748 | 639 | 7 653 | 18 706 | 83 747 |
| 55 | Automotive dealers & service stations | 962 | 7 450 | 21 247 | 90 117 | 932 | 7 843 | 20 877 | 88 225 |
| 56 | Apparel and accessory stores | 552 | 3 373 | 5 744 | 24 437 | 530 | 3 216 | 5 376 | 22 821 |
| 57 | Furniture and home furnishings stores | 361 | 1 918 | 5 258 | 21 396 | 333 | 1 942 | 4 950 | 20 291 |
| 58 | Eating and drinking places | 1 771 | 20 199 | 21 887 | 97 153 | 1 646 | 19 387 | 20 085 | 88 573 |
| 59 | Miscellaneous retail | 1 082 | 6 606 | 12 829 | 53 756 | 1 047 | 6 292 | 11 076 | 48 830 |
| -- | Administrative and auxiliary | 39 | 597 | 2 612 | 10 910 | 40 | 632 | 2 682 | 11 845 |
| .... | Finance,insurance,and real estate | 1 767 | 13 659 | 47 023 | 191 432 | 1 752 | 14 231 | 43 110 | 179 923 |
| 60 | Banking | 176 | 5 382 | 19 193 | 78 992 | 174 | 5 534 | 17 469 | 73 456 |
| 61 | Credit agencies other than banks | 209 | 1 669 | 4 986 | 20 159 | 206 | 1 674 | 4 688 | 19 072 |
| 62 | Security, commodity brokers & services | 61 | 312 | 2 915 | 11 181 | 51 | 295 | 2 647 | 10 310 |
| 63 | Insurance carriers | 130 | 1 526 | 6 326 | 24 605 | 138 | 1 742 | 6 247 | 24 694 |
| 64 | Insurance agents, brokers & service | 409 | 1 580 | 5 182 | 21 098 | 395 | 1 530 | 4 583 | 19 388 |
| 65 | Real estate | 669 | 2 291 | 5 097 | 21 336 | 685 | 2 624 | 4 800 | 21 221 |
| 66 | Combined real estate, insurance, etc. | 44 | 269 | 1 067 | 4 247 | 48 | 284 | 1 067 | 4 244 |
| 67 | Holding and other investment offices | 64 | 533 | 1 829 | 7 759 | 49 | 453 | 1 200 | 5 811 |
| – | Administrative and auxiliary | 5 | 95 | 429 | 2 055 | 6 | 95 | 410 | 1 727 |
| .... | Services | 6 036 | 55 875 | 139 084 | 585 666 | 5 586 | *54 090 | * 123 375 | * 526 360 |
| 70 | Hotels and other lodging places | 466 | 6 607 | 9 236 | 39 778 | 452 | 6 704 | 8 677 | 37 035 |
| 72 | Personal services | 565 | 2 645 | 4 751 | 19 806 | 555 | 2 731 | 4 623 | 18 929 |
| 73 | Business services | 542 | 4 328 | 11 305 | 48 021 | 499 | 4 038 | 10 450 | 45 610 |
| 75 | Auto repair, services, and garages | 459 | 1 922 | 5 239 | 21 862 | 402 | 1 867 | 5 155 | 22 131 |
| 76 | Miscellaneous repair services | 219 | 892 | 2 631 | 11 408 | 217 | 1 009 | 3 304 | 14 206 |

A:0–19; B:20–99; C:100–249; E:250–499; F:500–999; G:1,000–2499; H:2,500–4,999; I:5,000–9,999; J:10,000–24,999; K:25,000–49,999; L:50,000–99,999; M:100,000 or more.* Revised

## Table VII-1 (continued)

| SIC code | Major industry group | 1982 | | | | 1981 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Number of establishments | Number of employees for week including March 12 | Payroll ($1,000) | | Number of establishments | Number of employees for week including March 12 | Payroll ($1000) | |
| | | | | First Quarter | Annual | | | First Quarter | Annual |
| 78 | Motion pictures | 83 | 774 | 709 | 2 810 | 82 | 829 | 855 | 2 858 |
| 79 | Amusement & recreation services | 268 | 2 302 | 3 333 | 13 372 | 220 | 1 730 | 2 585 | 11 177 |
| 80 | Health services | 1 387 | 20 270 | 63 863 | 275 228 | 1 281 | 19 262 | 54 316 | 236 066 |
| 81 | Legal services | 415 | 1 640 | 6 286 | 24 340 | 409 | 1 503 | 4 884 | 20 063 |
| 82 | Educational services | 58 | 1 959 | 3 689 | 14 241 | 54 | 1 986 | 3 513 | 13 831 |
| 83 | Social services | 342 | 5 013 | 7 586 | 32 069 | 289 | *5 250 | *8 017 | *32 707 |
| 84 | Museums, botanical, zoological gardens | 10 | 57 | 79 | 368 | 8 | 48 | 70 | 297 |
| 86 | Membership organizations | 701 | 3 902 | 6 551 | 26 467 | 645 | 3 640 | 5 869 | 24 022 |
| 89 | Miscellaneous services | 510 | 3 312 | 13 206 | 53 114 | 465 | 3 160 | 10 895 | 46 022 |
| – | Administrative and auxiliary | 14 | 162 | 619 | 2 792 | 13 | 133 | 573 | 2 406 |
| .... | Nonclassifiable establishments | 547 | 558 | 906 | 6 060 | 1 138 | 3 006 | 4 378 | 27 368 |

A:0–19; B:20–99; C:100–249; E:250–499; F:500–999; G:1,000–2499; H:2,500–4,999; I:5,000–9,999; J:10,000–24,999; K:25,000–49,999; L:50,000–99,999; M:100,000 or more: *:Revised.

*Source:* *U.S. Bureau of the Census,* *County Business Patterns, Montana, March 1984, pp. 1-2.*

## Table VII-2

# Montana Businesses—Establishments, Employees, and Payroll by County: 1982 and 1981

(Excludes government employees, railroad employees, self-employed persons, etc. Size class 1 to 4 includes establishments having payroll but no employees during mid-March pay period. "D" denotes figures withheld to avoid disclosure of operations of individual establishments, the other alphabetics indicate employment-size class—see footnote.)

| County | 1982 | | | | 1981 | | | |
|---|---|---|---|---|---|---|---|---|
| | Number of establishments | Number of employees for week including March 12 | Payroll ($1,000) | | Number of establishments | Number of employees for week including March 12 | Payroll ($1,000) | |
| | | | First Quarter | Annual | | | First Quarter | Annual |
| **Total** | **20 720** | **198 489** | **623 981** | **2 646 657** | **20 557** | ***205 239** | ***609 365** | ***2 625 985** |
| Beaverhead | 229 | 1 563 | 3 449 | 14 738 | 220 | 1 490 | 3 388 | 14 914 |
| Big Horn | 194 | 2 088 | 6 848 | 35 411 | 189 | *2 190 | *7 852 | *34 388 |
| Blaine | 151 | 798 | 1 652 | 7 205 | 153 | 923 | 1 798 | 7 835 |
| Broadwater | 81 | 495 | 1 043 | 4 910 | 77 | 481 | 1 056 | 5 050 |
| Carbon | 167 | 990 | 1 861 | 8 523 | 166 | 1 091 | 1 972 | 8 565 |
| Carter | 33 | 141 | 262 | 1 248 | 33 | 171 | 277 | 1 233 |
| Cascade | 1 965 | 22 424 | 68 140 | 290 768 | 1 949 | 22 943 | 63 357 | 280 525 |
| Chouteau | 133 | 599 | 1 420 | 6 029 | 137 | 601 | 1 199 | 5 234 |
| Custer | 360 | 3 250 | 8 451 | 36 074 | 373 | 3 480 | 8 313 | 37 537 |
| Daniels | 77 | 460 | 1 058 | 4 633 | 84 | 438 | 987 | 4 180 |
| Dawson | 381 | 3 825 | 11 097 | 44 960 | 404 | 3 702 | 9 410 | 41 550 |
| Deer Lodge | 212 | 1 678 | 3 995 | 17 289 | 215 | 1 801 | 8 420 | 28 398 |
| Fallon | 113 | 837 | 2 457 | 9 717 | 110 | 733 | 1 989 | 8 926 |
| Fergus | 354 | 2 511 | 6 316 | 26 418 | 357 | 2 765 | 6 348 | 27 968 |
| Flathead | 1 512 | 13 312 | 42 961 | 179 381 | 1 448 | 14 109 | 44 891 | 184 473 |
| Gallatin | 1 360 | 12 170 | 30 108 | 127 502 | 1 314 | 11 640 | 27 716 | 120 097 |
| Garfield | 21 | 146 | 291 | 1 182 | 20 | 122 | 232 | 952 |
| Glacier | 290 | 2 283 | 7 506 | 29 612 | 302 | *2 367 | *6 606 | *30 015 |
| Golden Valley | 14 | 39 | 56 | 258 | 17 | 41 | 58 | 248 |
| Granite | 59 | 261 | 710 | 3 390 | 59 | 319 | 715 | 3 064 |
| Hill | 502 | 4 409 | 11 713 | 50 297 | 503 | *4 872 | *11 869 | *52 433 |
| Jefferson | 102 | 588 | 1 826 | 8 286 | 94 | 502 | 1 332 | 6 014 |
| Judith Basin | 45 | 170 | 269 | 1 292 | 40 | 161 | 284 | 1 386 |
| Lake | 376 | 2 510 | 5 857 | 25 517 | 367 | 2 663 | 5 825 | 25 402 |
| Lewis and Clark | 1 238 | 12 895 | 40 285 | 171 887 | 1 217 | 13 422 | 38 448 | 165 272 |
| Liberty | 58 | 259 | 919 | 3 387 | 60 | 295 | 856 | 3 534 |
| Lincoln | 389 | 2 780 | 9 971 | 49 485 | 370 | 3 169 | 11 371 | 46 506 |
| McCone | 54 | 469 | 1 445 | 6 291 | 54 | 509 | 1 192 | 5 330 |
| Madison | 160 | 641 | 1 695 | 7 227 | 140 | 691 | 1 728 | 7 715 |
| Meagher | 44 | 279 | 655 | 2 872 | 47 | 250 | 693 | 2 763 |
| Mineral | 76 | 376 | 706 | 5 261 | 85 | 606 | 1 632 | 6 788 |
| Missoula | 2 037 | 21 423 | 64 975 | 300 097 | 2 025 | 23 541 | 71 490 | 307 475 |
| Musselshell | 109 | 720 | 1 781 | 7 255 | 108 | 721 | 1 660 | 7 429 |
| Park | 337 | 2 398 | 5 271 | 23 619 | 342 | 2 498 | 5 559 | 24 959 |
| Petroleum | 6 | 14 | 11 | 52 | 9 | 11 | 16 | 80 |
| Phillips | 131 | 837 | 1 803 | 7 988 | 130 | 932 | 2 286 | 10 670 |
| Pondera | 184 | 1 062 | 2 869 | 12 095 | 189 | 1 187 | 2 858 | 12 467 |
| Powder River | 52 | 372 | 1 028 | 4 437 | 50 | 346 | 983 | 4 078 |
| Powell | 144 | 922 | 2 581 | 10 834 | 136 | 1 017 | 2 597 | 10 557 |
| Prairie | 41 | 143 | 274 | 1 274 | 39 | 168 | 264 | 1 237 |
| Ravalli | 453 | 3 011 | 6 683 | 29 627 | 475 | 3 022 | 6 874 | 30 920 |
| Richland | 417 | 4 538 | 14 739 | 59 640 | 450 | 4 527 | 13 349 | 60 783 |
| Roosevelt | 255 | 2 281 | 5 485 | 25 005 | 256 | 2 292 | 5 014 | 22 136 |
| Rosebud | 153 | 2 372 | 9 556 | 41 478 | 163 | *2 571 | *8 811 | *39 981 |
| Sanders | 168 | 1 209 | 2 977 | 13 654 | 181 | 1 569 | 3 792 | 17 161 |
| Sheridan | 187 | 1 391 | 3 374 | 13 534 | 196 | 1 433 | 3 380 | 15 068 |
| Silver Bow | 947 | 10 584 | 41 474 | 170 518 | 940 | 11 399 | 46 931 | 180 025 |
| Stillwater | 132 | 657 | 1 911 | 7 494 | 120 | 616 | 1 475 | 6 319 |
| Sweet Grass | 83 | 462 | 842 | 3 639 | 79 | 464 | 850 | 3 830 |
| Teton | 136 | 828 | 1 957 | 8 599 | 143 | 764 | 1 783 | 8 393 |
| Toole | 194 | 1 180 | 3 062 | 13 565 | 212 | *1 246 | *3 189 | *14 548 |
| Treasure | 13 | 93 | 225 | 1 053 | 16 | 86 | 218 | 1 068 |
| Valley | 263 | 1 971 | 4 663 | 20 312 | 265 | 2 184 | 4 825 | 24 205 |
| Wheatland | 58 | 277 | 599 | 2 279 | 53 | 236 | 468 | 1 840 |
| Wibaux | 28 | 195 | 386 | 1 526 | 27 | 130 | 270 | 1 150 |
| Yellowstone | 3 345 | 41 812 | 151 991 | 625 019 | 3 275 | 41 475 | 135 347 | 590 941 |
| Statewide | 88 | 2 471 | 16 432 | 61 013 | 76 | 2 251 | 13 268 | 60 376 |

A:0–19; B:20–99; C:100–249; E:250–499; F:500–999; G:1,000–2499; H:2,500–4,999; I:5,000–9,999; J:10,000–24,999; K:25,000–49,999; L:50,000–99,999; M:100,000 or more. *Revised

*Source:* *U.S. Bureau of the Census, County Business Patterns, Montana, March 1984, pp. 1-2.*

TABLE VII - 3

MAJOR PRIVATE EMPLOYERS IN MONTANA*: 1983
(listed in descending order of size)

| Number | Name |
|---|---|
| 1 | Burlington Northern, Inc. (railroad transportation & wood products) |
| 2 | Montana Power Company (coal mining, electric & gas services) |
| 3 | Champion International (wood & paper products) |
| 4 | Mountain Bell |
| 5 | Buttrey's (retail groceries) |
| 6 | K-Mart |
| 7 | St. Vincent's Hospital (Billings) |
| 8 | Montana Deaconess Hospital (Great Falls) |
| 9 | Arco Metals, Inc. (aluminum processing) |
| 10 | Billings Deaconess Hospital |
| 11 | Four B's Restaurants |
| 12 | Columbus Hospital (Great Falls) |
| 13 | St. James Hospital (Butte) |
| 14 | Safeway Stores, Inc. (retail groceries) |
| 15 | St. Patrick's Hospital (Missoula) |
| 16 | J.C. Penney & Company |
| 17 | St. Regis Paper Company (wood products) |
| 18 | Asarco, Inc. (metal mining & processing) |
| 19 | Community Hospital (Missoula) |
| 20 | Lee Enterprises, Inc. (newspaper publishing) |

* The two largest Montana employers are public; namely, the U.S. Government and Montana State Government.

SOURCE: Census & Economic Information Center, Montana Dept. of Commerce, 1984.

## TABLE VII - 4

## MAJOR MANUFACTURING EMPLOYERS IN MONTANA: 1983
(listed in descending order of size by employment)

| Number | Name |
|---|---|
| 1 | Champion Building Products (wood & paper products) |
| 2 | Plum Creek Timber Company (wood products) |
| 3 | Arco Metals, Inc. (aluminum) |
| 4 | St. Regis Paper Company (wood products) |
| 5 | Lee Enterprises, Inc. (newspaper publishing) |
| 6 | *Pierce Packing Company (meat packing) |
| 7 | Interstate Brands Corp. (bakery products) |
| 8 | Asarco, Inc. (metal processing) |
| 9 | A&S Tribal Industries (fabricated textile products) |
| 10 | Conoco, Inc. (petroleum refining) |
| 11 | Exxon Company (petroleum refining) |

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* In 1983, Pierce Packing underwent a Chapter 11 bankruptcy reorganization and went out of business in December of 1984.

SOURCE: Census & Economic Information Center, Montana Dept. of Commerce, July 1984.

## TABLE VII - 5

## SOLE PROPRIETORSHIP BUSINESSES: BUSINESS RECEIPTS & NET INCOME BY SEX OF PROPRIETOR & MAJOR INDUSTRY: TAX YEAR 1980

(dollar amounts in thousands)

| | United States | | | Montana | | |
|---|---|---|---|---|---|---|
| Industry | Number of Businesses | Total Receipts | Net Income | Number of Businesses | Total Receipts | Net Income |
| All Industries: | 12,701,597 | $505,884,882 | $55,449,987 | 84,029 | $2,960,103 | $268,291 |
| Ag., For. & Fish. | 3,279,386 | 181,112,780 | 1,279,306 | 32,395 | 883,247 | 57,483 |
| Mining, Constr. & Mfg. | 1,489,280 | 71,248,141 | 9,429,488 | 10,287 | 411,615 | 47,340 |
| Trans., Comm. & Electric | 438,795 | 19,965,525 | 1,995,557 | 2,015 | 154,988 | 14,552 |
| Wholesale & Retail Trade | 2,527,084 | 202,283,802 | 9,375,330 | 14,577 | 986,292 | 27,502 |
| Fin., Insur. & Real Est. | 1,048,966 | 21,530,768 | 6,614,631 | 4,577 | 85,409 | 29,780 |
| Services | 3,918,166 | 89,743,865 | 26,755,755 | 20,178 | 438,553 | 91,634 |
| Male-Operated Businesses: | | | | | | |
| All Industries | 9,172,108 | 453,284,081 | 50,185,091 | 58,987 | 2,663,728 | 226,107 |
| Ag., For. & Fish. | 2,507,955 | 91,[illegible],130 | 1,483,897 | 21,522 | 776,608 | 27,648 |
| Mining, Constr. & Mfg. | 1,381,326 | 67,943,813 | 9,189,606 | 9,816 | 399,298 | 47,924 |
| Trans., Comm. & Electric | 403,681 | 18,990,381 | 1,858,068 | 1,821 | 139,688 | 13,288 |
| Wholesale & Retail Trade | 1,579,381 | 179,362,606 | 8,942,783 | 8,078 | 901,331 | 32,102 |
| Fin., Insur. & Real Est. | 663,779 | 17,538,319 | 5,132,976 | 3,758 | 79,884 | 27,449 |
| Services | 2,635,972 | 77,699,432 | 23,427,761 | 13,092 | 336,919 | 77,697 |
| Female-Operated Businesses: | | | | | | |
| All Industries | 2,787,038 | 40,074,251 | 6,195,599 | 21,122 | 216,534 | 39,626 |
| Ag., For. & Fish. | 282,609 | 3,931,960 | 599,169 | 7,623 | 73,569 | 23,240 |
| Mining, Constr. & Mfg. | 84,221 | 1,977,303 | 192,474 | 360 | 10,472 | -114 |
| Trans., Comm. & Electric | 27,696 | 698,144 | 47,969 | 147 | 9,798 | 1,404 |
| Wholesale & Retail Trade | 824,771 | 18,937,581 | 533,617 | 5,344 | 55,437 | -886 |
| Fin., Insur. & Real Est. | 354,801 | 3,640,416 | 1,490,863 | 762 | 5,016 | 2,255 |
| Services | 1,212,940 | 10,888,846 | 3,331,505 | 6,886 | 62,251 | 13,728 |
| Male & Female Jointly-Operated Businesses: | | | | | | |
| All Industries | 742,451 | 12,526,550 | -850,703 | 4,820 | 79,841 | 2,558 |
| Ag., For. & Fish. | 488,742 | 5,340,690 | -803,760 | 3,252 | 33,078 | 6,595 |
| Mining, Constr. & Mfg. | 23,739 | 1,327,025 | 47,327 | 111 | 1,846 | -469 |
| Trans., Comm. & Electric | 7,418 | 277,801 | -13,483 | 47 | 5,501 | -140 |
| Wholesale & Retail Trade | 122,932 | 3,984,215 | -101,071 | 1,155 | 29,523 | -3,714 |
| Fin., Insur. & Real Est. | 38,366 | 352,932 | 20,792 | 57 | 549 | 76 |
| Services | 69,254 | 1,155,587 | -3,511 | 208 | 9,384 | 209 |

SOURCE: Internal Revenue Service, Returns Analysis Section, Table K-3. (Figures are estimates based on samples)

## TABLE VII - 6

## SECURITIES ISSUED IN MONTANA

| FY | New<br>Number | New<br>Volume | Renewed<br>Number | Renewed<br>Volume |
|---|---|---|---|---|
| 1979 | 450 | $ 746,270,833 | 399 | $ 3,029,112,729 |
| 1980 | 588 | 4,940,904,099 | 418 | 9,858,297,995 |
| 1981 | 1,175 | 6,979,407,721 | 459 | 6,705,049,092 |
| 1982 | 1,234 | 12,042,699,935 | 510 | 17,063,783,005 |
| 1983 | 1,582 | 36,883,920,073 | 612 | 26,510,936,739 |
| 1984 | 1,702 | 67,966,927,001 | 721 | 57,005,520,464 |

SOURCE: Securities Division, Montana State Auditor's Office, September 1984.

## TABLE VII - 7

## BANKRUPTCIES IN MONTANA

|  | Number of Cases |  |  |  |
|---|---|---|---|---|
| Year* | Total | Chapter 7 | Chapter 11 | Chapter 13 |
| 1970 | 907 | 900 | 2 | 5 |
| 1971 | 962 | 948 | 4 | 10 |
| 1972 | 898 | 893 | 0 | 5 |
| 1973 | 805 | 795 | 3 | 7 |
| 1974 | 770 | 767 | 0 | 3 |
| 1975 | 865 | 853 | 3 | 9 |
| 1976 | 861 | 841 | 4 | 16 |
| 1977 | 768 | 757 | 7 | 4 |
| 1978 | 773 | 765 | 4 | 4 |
| 1979 | 898 | 891 | 4 | 3 |
| 1980 | 1,036 | 1,002 | 16 | 18 |
| 1981 | 1,178 | 1,106 | 24 | 48 |
| 1982 | 990 | 889 | 56 | 45 |
| 1983 | 993 | 851 | 101 | 41 |

* years run from Oct. 1 of previous year to Sept. 30 of year indicated

SOURCE: Federal Bankruptcy Court, Great Falls, Montana, September 1984.

## TABLE VII - 8

## ANNUAL INDUSTRIAL & COMMERCIAL FAILURES[*]

| | Montana | | Mountain States | | United States | |
|---|---|---|---|---|---|---|
| Year | Number | Current Liabilities[**] (000,000) | Number | Current Liabilities[**] (000,000) | Number | Current Liabilities[**] (000,000) |
| 1960 | 17 | 0.5 | 452 | 26.0 | 15,445 | 938.6 |
| 1970 | 14 | 4.5 | 212 | 31.1 | 10,748 | 1,887.8 |
| 1971 | 23 | 2.1 | 239 | 32.5 | 10,326 | 1,916.9 |
| 1972 | 17 | 1.7 | 226 | 38.1 | 9,566 | 2,000.2 |
| 1973 | 12 | 0.9 | 197 | 28.0 | 9,345 | 2,298.6 |
| 1974 | 20 | 2.8 | 201 | 36.4 | 9,915 | 3,053.1 |
| 1975 | 30 | 2.5 | 403 | 75.2 | 11,432 | 4,386.2 |
| 1976 | 18 | 1.8 | 308 | 63.5 | 9,628 | 3,011.3 |
| 1977 | 31 | 5.8 | 262 | 136.0 | 7,919 | 3,095.3 |
| 1978 | 37 | 3.3 | 179 | 22.4 | 6,619 | 2,656.0 |
| 1979 | 34 | 5.7 | 234 | 51.9 | 7,654 | 2,667.4 |
| 1980 | 86 | 26.7 | 416 | 99.8 | 11,742 | 4,635.1 |
| 1981 | 64 | 9.8 | 757 | 233.7 | 16,794 | 6,955.2 |
| 1982 | 61 | 51.3 | 1,868 | 1,678.6 | 24,908 | 15,610.8 |

[*] Includes concerns discontinued following assignment, voluntary or involuntary petition in bankruptcy, attachment, execution, foreclosure, etc.; voluntary withdrawals from business with known loss to creditors; also enterprises involved in court action, such as receivership and reorganization or arrangement which may or may not lead to discontinuance; and businesses making voluntary compromise with creditors out of court.

[**] Liabilities exclude long-term publicly held obligations; offsetting assets are not taken into account.

SOURCE: Dun & Bradstreet, New York, New York, The Failure Record Through 1980, and Monthly Failure Report.

## TABLE VII - 9

### MONTHLY INDUSTRIAL & COMMERCIAL FAILURES*
(dollars in thousands)

| Date | Montana** | | Mountain States** | | United States** | |
|---|---|---|---|---|---|---|
| | Number | Liability | Number | Liability | Number | Liability |
| Aug 80 | 5 | 1,837 | 34 | 6,176 | 1,009 | 345,408 |
| Sept 80 | 19 | 4,022 | 40 | 10,450 | 926 | 1,002,944 |
| Oct 80 | 28 | 10,193 | 57 | 15,902 | 1,323 | 359,242 |
| Nov 80 | 8 | 1,599 | 23 | 5,165 | 860 | 239,344 |
| Dec 80 | 7 | 2,753 | 35 | 11,180 | 1,015 | 288,298 |
| Jan 81 | 9 | 1,662 | 56 | 10,076 | 1,109 | 341,360 |
| Feb 81 | 6 | 916 | 281 | 60,357 | 1,133 | 789,205 |
| Mar 81 | NA | NA | NA | NA | NA | NA |
| Apr 81 | 6 | 415 | 394 | 96,642 | 1,557 | 536,877 |
| May 81 | 2 | 241 | 59 | 20,588 | 1,464 | 428,199 |
| June 81 | 6 | 761 | 41 | 13,683 | 1,408 | 408,545 |
| July 81 | 4 | 974 | 71 | 20,009 | 1,432 | 619,462 |
| Aug 81 | 5 | 357 | 56 | 9,560 | 1,172 | 450,412 |
| Sept 81 | 9 | 2,372 | 111 | 21,251 | 1,777 | 752,345 |
| Oct 81 | 9 | 682 | 93 | 14,719 | 1,604 | 897,938 |
| Nov 81 | 2 | 232 | 65 | 17,109 | 1,368 | 618,765 |
| Dec 81 | 3 | 364 | 87 | 69,686 | 1,558 | 626,739 |
| Jan 82 | 8 | 1,725 | 68 | 31,350 | 1,535 | 645,143 |
| Feb 82 | 2 | 693 | 519 | 129,555 | 1,854 | 913,462 |
| Mar 82 | NA | NA | NA | NA | NA | NA |
| Apr 82 | 6 | 2,837 | 452 | 188,618 | 1,882 | 1,309,327 |
| May 82 | 4 | 5,708 | 119 | 53,120 | 1,941 | 2,850,453 |
| June 82 | 5 | 2,740 | 121 | 24,965 | 2,452 | 1,020,252 |
| July 82 | 4 | 1,056 | 90 | 20,483 | 1,631 | 7,725,596 |

* Includes concerns discontinued following assignment, voluntary or involuntary petition in bankruptcy, attachment, execution, foreclosure, etc.; voluntary withdrawals from business with known loss to creditors; also enterprises involved in court action, such as receivership and reorganization or arrangement which may or may not lead to discontinuance; and businesses making voluntary compromise with creditors out of court.

** Liabilities exclude long-term publicly held obligations; offsetting assets are not taken into account.

SOURCE: Dun & Bradstreet, New York, New York, The Failure Record Through 1980, and Monthly Failure Report.

## TABLE VII - 10

## DISTRIBUTION OF EMPLOYMENT & ESTABLISHMENTS BY EMPLOYMENT SIZE OF ESTABLISHMENT: 1982

| | Montana | | Region* | | United States | |
|---|---|---|---|---|---|---|
| Size Class | No. of Estab. | No. of Employees | No. of Estab. | No. of Employees | No. of Estab. | No. of Employees |
| 1 - 4 | 15,241 | 35,605 | 107,449 | 258,782 | 2,902,163 | 6,946,539 |
| 5 - 9 | 5,466 | 34,772 | 40,908 | 260,328 | 1,063,824 | 6,802,991 |
| 10 - 19 | 2,668 | 35,155 | 25,628 | 339,311 | 713,700 | 9,495,896 |
| 20 - 49 | 1,426 | 40,589 | 15,665 | 448,670 | 493,494 | 14,387,450 |
| 50 - 99 | 316 | 20,965 | 4,529 | 302,540 | 161,520 | 10,669,729 |
| 100 - 249 | 149 | 20,627 | 1,964 | 278,847 | 86,780 | 12,667,742 |
| 250 - 499 | 34 | 11,243 | 594 | 199,718 | 28,462 | 9,610,861 |
| 500 - 999 | 20 | 1,419 | 212 | 136,837 | 12,658 | 8,339,194 |
| 1,000 - 4,999 | 5 | 10,240 | 134 | 252,632 | 6,754 | 11,704,204 |
| 5,000 - 9,999 | 0 | 0 | 17 | 109,667 | 356 | 2,319,301 |
| 10,000+ | 0 | 0 | 0 | 0 | 106 | 1,765,820 |
| Total | 25,328 | 223,315 | 197,109 | 2,587,122 | 5,469,674 | 94,710,727 |

* includes Colorado, Montana, North Dakota, South Dakota, Utah, and Wyoming.

SOURCE: U.S. Bureau of the Census, County Business Patterns, 1982.

## TABLE VII - 11

## MANUFACTURING IN MONTANA: EMPLOYEES*, PAYROLL & ESTABLISHMENTS BY INDUSTRY: 1982

| SIC Code | Industry | No. of Employees for Wk. Incl. Mar. 12 | Payroll ($1,000) First Quarter | Payroll ($1,000) Annual | No. of Estab. | Number of establishments by employment size class: 1 to** 4 | 5 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 249 | 250 to 499 | 500 to 999 | 1,000 or More |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | Manufacturing | 19,677 | 89,185 | 381,408 | 973 | 454 | 195 | 155 | 93 | 39 | 25 | 8 | 3 | 1 |
| 20 | Food & Kindred Prod. | 3,407 | 14,381 | 55,055 | 110 | 35 | 13 | 29 | 16 | 10 | 5 | 1 | 1 | - |
| 101 | Meat Products | 856 | 3,802 | 12,492 | 23 | 10 | 3 | 7 | 1 | 1 | - | - | 1 | - |
| 2011 | Meat Packing Plants | (F) | (D) | (D) | 20 | 9 | 3 | 6 | - | 1 | - | - | 1 | - |
| 2013 | Sausages & Other Prepared Meats | (B) | (D) | (D) | 3 | 1 | - | 1 | 1 | - | - | - | - | - |
| 202 | Dairy Products | 653 | 2,245 | 10,332 | 19 | 2 | 1 | 7 | 3 | 5 | 1 | - | - | - |
| 2026 | Fluid Milk | 538 | 1,971 | 9,092 | 10 | - | - | 2 | 2 | 5 | 1 | - | - | - |
| 203 | Preserved Fruits & Vegetables | (B) | (D) | (D) | 2 | 1 | - | 1 | - | - | - | - | - | - |
| 204 | Grain Mill Products | 366 | 1,549 | 5,978 | 25 | 7 | 5 | 9 | 3 | 1 | - | - | - | - |
| 2041 | Flour & Other Prod. | (C) | (D) | (D) | 3 | - | - | - | 2 | 1 | - | - | - | - |
|  | Prepared Feeds, etc. | (C) | (D) | (D) | 22 | 7 | 5 | 9 | 1 | - | - | - | - | - |
| 205 | Bakery Products | (F) | (D) | (D) | 13 | 7 | 1 | 2 | - | 1 | 2 | - | - |  |
| 2051 | Bread, Cake & Related Products | (F) | (D) | (D) | 13 | 7 | 1 | 2 | - | 1 | 2 | - | - |  |
| 206 | Sugar & Confectionery Products | (E) | (D) | (D) | 4 | 2 | - | - | - | - | 1 | 1 | - |  |
| 2063 | Beet Sugar | (E) | (D) | (D) | 2 | - | - | - | - | - | 1 | 1 | - |  |
| 207 | Fats & Oils | 107 | 553 | 1,956 | 5 | - | 2 | - | 3 | - | - | - | - |  |
| 208 | Beverages | 463 | 2,340 | 8,177 | 14 | 2 | - | 3 | 6 | 2 | 1 | - | - |  |
| 2086 | Bottled & Canned Soft Drinks | (E) | (D) | (D) | 12 | 1 | - | 2 | 6 | 2 | 1 | - | - |  |
| 209 | Misc. Food & Kindred Products | 11 | 18 | 76 | 5 | 4 | 1 | - | - | - | - | - | - |  |
| 22 | Textile Mill Products | (C) | (D) | (D) | 2 | - | 1 | - | - | - | 1 | - | - |  |
| 222 | Weaving mills, synthetics | (A) | (D) | (D) | 1 | - | 1 | - | - | - | - | - | - |  |
| 229 | Misc. Textile Goods | (C) | (D) | (D) | 1 | - | - | - | - | - | 1 | - | - |  |
| 2298 | Cordage & Twine | (C) | (D) | (D) | 1 | - | - | - | - | - | 1 | - | - |  |
| 23 | Apparel & Other Textile Products | 62 | 160 | 701 | 9 | 3 | 3 | 3 | - | - | - | - | - |  |
| 232 | Men's & Boys's Furnishings | (A) | (D) | (D) | 2 | 1 | - | 1 | - | - | - | - | - |  |
| 233 | Women's & Misses' Outerwear | (A) | (D) | (D) | 1 | - | 1 | - | - | - | - | - | - |  |
| 239 | Misc. Fabricated Textile Products | 43 | 118 | 454 | 6 | 2 | 2 | 2 | - | - | - | - | - |  |
| 24 | Lumber & Wood Prod. | 6,232 | 27,384 | 133,155 | 328 | 184 | 59 | 39 | 20 | 11 | 11 | 3 | - |  |
| 241 | Logging Camps & Logging Contractors | 1,411 | 5,134 | 28,210 | 209 | 143 | 38 | 21 | 5 | - | 1 | 1 | - |  |
| 242 | Sawmills & Planing Mills | 2,228 | 11,380 | 55,934 | 65 | 22 | 10 | 7 | 11 | 9 | 5 | 1 | - |  |
| 2421 | Sawmills & Planing Mills, General | (G) | (D) | (D) | 64 | 21 | 10 | 7 | 11 | 9 | 5 | 1 | - |  |

TABLE VII - 11
(cont.)

| SIC Code | Industry | No. of Employees for Wk. Incl. Mar. 12 | Payroll ($1,000) First Quarter | Payroll ($1,000) Annual | No. of Estab. | Number of establishments by employment size class 1 to 4** | 5 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 249 | 250 to 499 | 500 to 999 | 1,000 or More |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 243 | Millwork, Plywood & Struct. Members | 1,827 | 7,689 | 35,784 | 21 | 7 | 4 | 4 | 1 | 1 | 2 | 1 | - | |
| 2431 | Millwork | (C) | (D) | (D) | 8 | 3 | 2 | 1 | 1 | - | 1 | - | - | |
| 2436 | Softwood Veneer & Plywood | (G) | (D) | (D) | 3 | - | - | - | - | - | 1 | 1 | - | |
| 2439 | Structural Wood Members, nec | (B) | (D) | (D) | 4 | 1 | - | 1 | - | 1 | - | - | - | |
| 244 | Wood Containers | 37 | 50 | 162 | 3 | 1 | 1 | 1 | - | - | - | - | - | |
| 245 | Wood Buildings & Mobile Homes | 290 | 1,052 | 4,546 | 14 | 4 | 5 | 2 | 2 | - | 1 | - | - | |
| 2451 | Mobile Homes | (C) | (D) | (D) | 2 | 1 | - | - | - | - | 1 | - | - | |
| 2452 | Prefab. Wood Bldgs. | (C) | (D) | (D) | 12 | 3 | 5 | 2 | 2 | - | - | - | - | |
| 249 | Misc. Wood Products | 437 | 2,075 | 8,413 | 16 | 7 | 1 | 4 | 1 | 1 | 2 | - | - | |
| 2491 | Wood Preserving | 80 | 308 | 1,525 | 10 | 5 | - | 4 | 1 | - | - | - | - | |
| 2492 | Particleboard | (C) | (D) | (D) | 1 | - | - | - | - | - | 1 | - | - | |
| 2499 | Wood Products, nec. | (C) | (D) | (D) | 5 | 2 | 1 | - | - | 1 | 1 | - | - | |
| 25 | Furniture & Fixtures | 164 | 476 | 2,139 | 14 | 9 | 1 | - | 4 | - | - | - | - | |
| 251 | Household Furniture | 117 | 335 | 1,466 | 5 | 2 | - | - | 3 | - | - | - | - | |
| 2511 | Wood Hshld. Furn. | (B) | (D) | (D) | 3 | 1 | - | - | 2 | - | - | - | - | |
| 252 | Office Furniture | (A) | (D) | (D) | 1 | 1 | - | - | - | - | - | - | - | |
| 254 | Partitions & Fixtures | (B) | (D) | (D) | 6 | 5 | - | - | 1 | - | - | - | - | |
| 259 | Misc. Furn. & Fixt. | (A) | (D) | (D) | 1 | - | 1 | - | - | - | - | - | - | |
| 26 | Paper & Allied Products | (F) | (D) | (D) | 3 | - | 1 | 1 | - | - | - | - | 1 | |
| 263 | Paperboard Mills | (F) | (D) | (D) | 1 | - | - | - | - | - | - | - | 1 | |
| 264 | Misc. Converted Paper Products | (A) | (D) | (D) | 1 | - | 1 | - | - | - | - | - | - | |
| 265 | Paperboard Containers & Boxes | (A) | (D) | (D) | 1 | - | - | 1 | - | - | - | - | - | |
| 27 | Printing & Publishing | 2,421 | 7,620 | 29,814 | 156 | 66 | 38 | 27 | 15 | 6 | 3 | 1 | - | |
| 271 | Newspapers | 1,570 | 5,019 | 19,092 | 67 | 21 | 19 | 10 | 9 | 5 | 2 | 1 | - | |
| 272 | Periodicals | 57 | 157 | 558 | 6 | - | 3 | 3 | - | - | - | - | - | |
| 273 | Books | 51 | 104 | 484 | 8 | 6 | 1 | - | 1 | - | - | - | - | |
| 274 | Misc. Publishing | 17 | 39 | 125 | 3 | 1 | 2 | - | - | - | - | - | - | |
| 275 | Commercial Printing | 583 | 1,697 | 7,043 | 58 | 27 | 12 | 13 | 5 | 1 | - | - | - | |
| 2751 | Letterpress | (C) | (D) | (D) | 15 | 7 | 3 | 4 | - | 1 | - | - | - | |
| 2752 | Lithographic | 406 | 1,288 | 5,413 | 42 | 19 | 9 | 9 | 5 | - | - | - | - | |
| 278 | Blankbooks & Bookbinding | (C) | (D) | (D) | 2 | 1 | - | - | - | - | 1 | - | - | |
| 2782 | Blankbooks & Looseleaf Binders | (C) | (D) | (D) | 1 | - | - | - | - | - | 1 | - | - | |
| 279 | Printing Trade Svcs. | (B) | (D) | (D) | 6 | 5 | - | 1 | - | - | - | - | - | |
| 28 | Chemicals & Allied Prod. | 481 | 2,763 | 12,031 | 24 | 11 | 4 | 5 | 3 | - | 1 | - | - | |
| 281 | Industrial Inorganic Chem. | 345 | 2,155 | 9,178 | 9 | 4 | 1 | 1 | 2 | - | 1 | - | - | |
| 2816 | Inorganic Pigments | (B) | (D) | (D) | 2 | - | - | 1 | 1 | - | - | - | - | |
| 2819 | Industrial Inorganic Chemicals, nec | (E) | (D) | (D) | 2 | - | - | - | 1 | - | 1 | - | - | |

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## TABLE VII - 11
(cont.)

| SIC Code | Industry | No. of Employees for Wk. Incl. Mar. 12 | Payroll ($1,000) First Quarter | Payroll ($1,000) Annual | No. of Estab. | 1 to** 4 | 5 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 249 | 250 to 499 | 500 to 999 | 1,000 or More |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 284 | Soap, Cleaners & Toilet Goods | (A) | (D) | (D) | 1 | - | 1 | - | - | - | - | - | - | |
| 285 | Paints & Allied Products | (A) | (D) | (D) | 2 | 1 | 1 | - | - | - | - | - | - | |
| 286 | Industrial Organic Chem. | (A) | (D) | (D) | 1 | - | - | 1 | - | - | - | - | - | |
| 287 | Agricultural Chemicals | 81 | 375 | 1,857 | 7 | 3 | 1 | 2 | - | - | - | - | - | |
| 289 | Misc. Chemical Products | (B) | (D) | (D) | 4 | 3 | - | 1 | - | - | - | - | - | |
| 29 | Petroleum & Coal Products | 855 | 5,879 | 26,683 | 9 | 2 | - | 1 | 3 | - | 1 | 2 | - | |
| 291 | Petroleum Refining | (F) | (D) | (D) | 7 | 1 | - | - | 3 | - | 1 | 2 | - | |
| 295 | Paving & Roofing Materials | (A) | (D) | (D) | 1 | - | - | 1 | - | - | - | - | - | |
| 299 | Misc. Petroleum & Coal Products | (A) | (D) | (D) | 1 | 1 | - | - | - | - | - | - | - | |
| 30 | Rubber & Misc. Plastic Products | 112 | 269 | 884 | 10 | 6 | 1 | 2 | 1 | - | - | - | - | |
| 307 | Misc. Plastic Products | 112 | 269 | 884 | 10 | 6 | 1 | 2 | 1 | - | - | - | - | |
| 31 | Leather & Leather Prod. | 68 | 99 | 373 | 7 | 4 | 1 | 1 | 1 | - | - | - | - | |
| 311 | Leather Tanning & Finishing | (A) | (D) | (D) | 1 | 1 | - | - | - | - | - | - | - | |
| 313 | Boot & Shoe Cut Stock & Findings | (A) | (D) | (D) | - | - | - | - | - | - | - | - | - | |
| 314 | Footwear, except Rubber | (A) | (D) | (D) | 1 | - | - | 1 | - | - | - | - | - | |
| 316 | Luggage | (B) | (D) | (D) | 2 | 1 | - | - | 1 | - | - | - | - | |
| 317 | Handbags & Personal Leather Goods | (A) | (D) | (D) | 1 | 1 | - | - | - | - | - | - | - | |
| 319 | Leather Goods, nec. | (A) | (D) | (D) | 2 | 1 | 1 | - | - | - | - | - | - | |
| 32 | Stone, Clay & Glass Prod. | 970 | 3,808 | 19,497 | 93 | 43 | 25 | 13 | 9 | 1 | 2 | - | - | |
| 321 | Flat Glass | (A) | (D) | (D) | 1 | - | 1 | - | - | - | - | - | - | |
| 323 | Prod. of Purchased Glass | (A) | (D) | (D) | 2 | 2 | - | - | - | - | - | - | - | |
| 324 | Cement, Hydraulic | (C) | (D) | (D) | 2 | - | - | - | - | - | 2 | - | - | |
| 325 | Structural Clay Products | (A) | (D) | (D) | 2 | 2 | - | - | - | - | - | - | - | - |
| 326 | Pottery & Related Products | (A) | (D) | (D) | 4 | 3 | 1 | - | - | - | - | - | - | - |
| 327 | Concrete, Gypsum & Plaster Products | 650 | 1,940 | 11,690 | 77 | 34 | 12 | 7 | 1 | - | - | - | - | - |
| 3272 | Concrete Prod., nec | 162 | 507 | 2,445 | 17 | 8 | 4 | 2 | 3 | - | - | - | - | - |
| 3773 | Ready-mixed Concrete | 412 | 1,101 | 7,966 | 56 | 26 | 18 | 8 | 3 | 1 | - | - | - | - |
| 328 | Cut Stone & Stone Products | (A) | (D) | (D) | 1 | 1 | - | - | - | - | - | - | - | - |
| 329 | Misc. Nonmetallic Mineral Products | (B) | (D) | (D) | 4 | 1 | - | 1 | 2 | - | - | - | - | - |
| 3295 | Minerals, ground or treated | (B) | (D) | (D) | 4 | 1 | - | 1 | 2 | - | - | - | - | - |
| 33 | Primary Metal Industries | (G) | (D) | (D) | 13 | 3 | 3 | 4 | 1 | - | - | 1 | 1 | - |
| 331 | Blast Furnace & Basic Steel Products | (A) | (D) | (D) | 2 | 1 | - | 1 | - | - | - | - | - | - |
| 332 | Iron & Steel Foundries | (B) | (D) | (D) | 1 | - | - | - | 1 | - | - | - | - | - |
| 333 | Primary Nonferrous Metals | (G) | (D) | (D) | 2 | - | - | - | - | - | - | 1 | 1 | - |
| 3332 | Primary Lead | (E) | (D) | (D) | 1 | - | - | - | - | - | - | 1 | - | - |
| 3334 | Primary Aluminum | (F) | (D) | (D) | 1 | - | - | - | - | - | - | - | 1 | - |

## TABLE VII - 11
(cont.)

| SIC Code | Industry | No. of Employees for Wk. Incl. Mar. 12 | Payroll ($1,000) First Quarter | Payroll ($1,000) Annual | No. of Estab. | 1 to 4** | 5 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 249 | 250 to 499 | 500 to 999 | 1,000 or More |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 336 | Nonferrous Foundries | (B) | (D) | (D) | 7 | 1 | 3 | 3 | - | - | - | - | - | - |
| 3362 | Brass, Bronze & Copper Foundries | (B) | (D) | (D) | 7 | 1 | 3 | 3 | - | - | - | - | - | - |
| 339 | Misc. Primary Metal Prod. | (A) | (D) | (D) | 1 | 1 | - | - | - | - | - | - | - | - |
| 34 | Fabricated Metal Products | 833 | 3,489 | 13,282 | 47 | 18 | 8 | 8 | 8 | 5 | - | - | - | - |
| 341 | Metal Cans & Shipping Containers | (A) | (D) | (D) | 1 | - | - | 1 | - | - | - | - | - | - |
| 342 | Cutlery, Hand Tools & Hardware | (A) | (D) | (D) | 3 | 1 | 1 | 1 | - | - | - | - | - | - |
| 343 | Plumbing & Heating, except Electric | 84 | 148 | 693 | 9 | 4 | 2 | 1 | 2 | - | - | - | - | - |
| 3433 | Heating Equipment, except Electric | 84 | 148 | 603 | 0 | 4 | 2 | 1 | 2 | - | - | - | - | - |
| 344 | Fabricated Structural Metal Products | 596 | 2,874 | 10,383 | 16 | 4 | 1 | 1 | 5 | 5 | - | - | - | - |
| 3441 | Fabricated Struc. Metal | 299 | 1,405 | 5,735 | 7 | - | 1 | - | 4 | 2 | - | - | - | - |
| 3442 | Metal Doors, Sash, Trim | (B) | (D) | (D) | 1 | - | - | - | - | 1 | - | - | - | - |
| 3443 | Fabricated Plate Work (boiler shops) | (C) | (D) | (D) | 3 | 1 | - | - | - | 2 | - | - | - | - |
| 346 | Metal Forgings & Stampings | (A) | (D) | (D) | 4 | 2 | 2 | - | - | - | - | - | - | - |
| 347 | Metal Services, nec | (B) | (D) | (D) | 4 | 2 | 1 | 1 | - | - | - | - | - | - |
| 348 | Ordnance & Access., nec | (A) | (D) | (D) | 2 | 1 | - | 1 | - | - | - | - | - | - |
| 349 | Misc. Fabr. Metal Products | 64 | 235 | 1,061 | 5 | 1 | 1 | 2 | 1 | - | - | - | - | - |
| 3499 | Misc. Fabr. Metal Prod., nec | (B) | (D) | (D) | 4 | 1 | - | 2 | 1 | - | - | - | - | - |
| 35 | Machinery, except elec. | 639 | 2,427 | 8,808 | 63 | 29 | 16 | 11 | 5 | 2 | - | - | - | - |
| 352 | Farm & Garden Machinery | 65 | 201 | 707 | 10 | 5 | 2 | 3 | - | - | - | - | - | - |
| 3523 | Farm Machinery & Equip. | 65 | 201 | 707 | 10 | 5 | 2 | 3 | - | - | - | - | - | - |
| 353 | Construction & Related Machinery | 166 | 627 | 2,246 | 7 | 3 | - | 1 | 2 | 1 | - | - | - | - |
| 3531 | Construction Machinery | (C) | (D) | (D) | 3 | 1 | - | - | 1 | 1 | - | - | - | - |
| 3533 | Oilfield Machinery | (B) | (D) | (D) | 3 | 1 | - | 1 | 1 | - | - | - | - | - |
| 354 | Metalworking Machinery | (A) | (D) | (D) | 1 | - | 1 | - | - | - | - | - | - | - |
| 355 | Special Industry Machinery | 52 | 146 | 657 | 5 | 2 | 1 | 1 | 1 | - | - | - | - | - |
| 356 | General Industrial Mach. | (B) | (D) | (D) | 3 | - | 1 | 1 | 1 | - | - | - | - | - |
| 357 | Office & Computing Mach. | 22 | 93 | 330 | 3 | 1 | 1 | 1 | - | - | - | - | - | - |
| 359 | Misc. Machinery, except electrical | 269 | 1,120 | 3,995 | 34 | 18 | 10 | 4 | 1 | 1 | - | - | - | - |
| 3599 | Machinery, except electrical, nec | 269 | 1,120 | 3,995 | 34 | 18 | 10 | 4 | 1 | 1 | - | - | - | - |
| 36 | Electric & Electronic Equipment | 342 | 1,381 | 4,963 | 14 | 3 | 5 | 2 | 3 | - | 1 | - | - | - |
| 362 | Electric Industrial Apparatus | (C) | (D) | (D) | 4 | - | 2 | - | 1 | - | 1 | - | - | - |
| 3622 | Industrial Controls | (C) | (D) | (D) | 2 | - | 1 | - | - | - | 1 | - | - | - |
| 3629 | Electrical Industrial Apparatus, nec | (B) | (D) | (D) | 2 | - | 1 | - | 1 | - | - | - | - | - |

## TABLE VII - 11
(cont.)

| SIC Code | Industry | No. of Employees for Wk. Incl. Mar. 12 | Payroll ($1,000) | | No. of Estab. | Number of establishments by employment size class | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | First Quarter | Annual | | 1 to 4** | 5 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 249 | 250 to 499 | 500 to 999 | 1,000 or More |
| 363 | Household Appliances | (A) | (D) | (D) | 1 | 1 | - | - | - | - | - | - | - | - |
| 366 | Communication Equipment | (B) | (D) | (D) | 3 | 1 | - | 2 | - | - | - | - | - | - |
| 367 | Electronic Components & Accessories | 69 | 316 | 936 | 5 | 1 | 2 | - | 2 | - | - | - | - | - |
| 369 | Misc. Electrical Equipment & Supplies | (A) | (D) | (D) | 1 | - | 1 | - | - | - | - | - | - | - |
| 37 | Transportation Equipment | 64 | 178 | 918 | 11 | 6 | 2 | 3 | - | - | - | - | - | - |
| 371 | Motor Vehicles & Equipment | (B) | (D) | (D) | 8 | 5 | 2 | 1 | - | - | - | - | - | - |
| 373 | Ship & Boat Building & Repairing | (A) | (D) | (D) | 1 | 1 | - | - | - | - | - | - | - | - |
| 379 | Misc. Transportation Equip. | (B) | (D) | (D) | 2 | - | - | 2 | - | - | - | - | - | - |
| 38 | Instruments & Related Products | 150 | 583 | 2,725 | 13 | 8 | 2 | 2 | - | 1 | - | - | - | - |
| 382 | Measuring & Controlling Devices | (A) | (D) | (D) | 3 | 3 | - | - | - | - | - | - | - | - |
| 383 | Optical Instruments & Lenses | (A) | (D) | (D) | 2 | 1 | - | 1 | - | - | - | - | - | - |
| 384 | Medical Instruments & Supplies | (C) | (D) | (D) | 7 | 4 | 1 | 1 | - | 1 | - | - | - | - |
| 3843 | Dental Equipment & Supplies | (C) | (D) | (D) | 4 | 3 | - | - | - | 1 | - | - | - | - |
| 385 | Opthalmic Goods | (A) | (D) | (D) | 1 | - | 1 | - | - | - | - | - | - | - |
| 39 | Misc. Manufacturing Indus. | 468 | 1,601 | 6,199 | 40 | 21 | 11 | 2 | 3 | 3 | - | - | - | - |
| 391 | Jewelry, Silverware, & Plated Ware | (B) | (D) | (D) | 2 | - | - | - | 1 | 1 | - | - | - | - |
| 3914 | Silverware & Plated Ware | (B) | (D) | (D) | 2 | - | - | - | 1 | 1 | - | - | - | - |
| 394 | Toys & Sporting Goods | 142 | 255 | 1,209 | 9 | 3 | 3 | 2 | - | 1 | - | - | - | - |
| 3944 | Games, Toys, & Childrens Vehicles | (C) | (D) | (D) | 4 | 1 | 1 | 1 | - | 1 | - | - | - | - |
| 395 | Pens, Pencils, Office & Art Supplies | (B) | (D) | (D) | 3 | 2 | - | - | - | 1 | - | - | - | - |
| 3952 | Lead Pencils & Art Goods | 87 | 263 | 1,246 | 1 | - | - | - | - | 1 | - | - | - | - |
| 396 | Costume Jewelry & Notions | (A) | (D) | (D) | 2 | 2 | - | - | - | - | - | - | - | - |
| 399 | Misc. Manufactures | 139 | 529 | 2,370 | 23 | 13 | 8 | - | 2 | - | - | - | - | - |
| 3993 | Signs & Advertising Displays | 113 | 481 | 2,128 | 19 | 11 | 6 | - | 2 | - | - | - | - | - |

* Excludes government employees, railroad employees, self-employed persons, etc.

** Size class 1 to 4 includes establishments having payroll but no employees during mid-March pay period.

Employment-Size Class (A): 0 - 19; (B): 20 - 99; (C): 100 - 249; (E): 250 - 499; (F): 500-999

(D): Withheld to avoid disclosure of operations of individual establishments.
SOURCE: U.S. Bureau of the Census, County Business Patterns, 1982, pp. 3, 4, and 5.

## TABLE VII - 12

## MONTANA COUNTIES MOST HEAVILY DEPENDENT ON TRAVEL-RELATED EMPLOYMENT: 1983

| County | Percent of County Employment which is Travel-Related |
|---|---|
| Glacier | 23.0 |
| Park | 12.0 |
| Flathead | 10.1 |
| Gallatin | 10.0 |
| Beaverhead | 9.9 |
| Madison | 9.5 |
| Silver Bow | 9.2 |
| Dawson | 8.4 |
| Roosevelt | 5.8 |
| Richland | 5.2 |

SOURCE: Bureau of Business & Economic Research, Executive Summary: The Montana Travel Industry, 1983, December 1984.

## TABLE VII - 13

## CONCENTRATION OF TRAVEL-RELATED EMPLOYMENT IN MONTANA COUNTIES: 1983

| County | Percent of State Travel Employment in County |
|---|---|
| Yellowstone | 15.4 |
| Gallatin | 11.2 |
| Flathead | 10.8 |
| Cascade | 9.2 |
| Silver Bow | 6.8 |
| Missoula | 6.6 |
| Glacier | 6.5 |
| Lewis and Clark | 5.0 |
| Park | 3.3 |
| Dawson | 2.9 |

SOURCE: Bureau of Business & Economic Research, Executive Summary: The Montana Travel Industry, 1983, December 1984.

## TABLE VII - 14

## THE MONTANA TRAVEL INDUSTRY: 1979 & 1983

| | 1979 | 1983 | Percent Change |
|---|---|---|---|
| Total travel expenditures:<br>(millions of constant 1983 dollars) | $748 | $814 | 9 |
| Nonresident | 382 | 423 | 11 |
| Tourist | 114 | 127 | 11 |
| Resident | 366 | 391 | 7 |
| Tourist | 92 | 98 | 7 |
| Total labor income generated:<br>(millions of constant 1983 dollars) | $188 | $204 | 9 |
| Travel by nonresidents | 96 | 106 | 10 |
| Tourist | 29 | 32 | 10 |
| Travel by residents | 92 | 98 | 7 |
| Tourist | 23 | 24 | 7 |
| Number of travel-related jobs: | 17,600 | 20,200 | 15 |
| Nonresident | 9,000 | 10,500 | 17 |
| Resident | 8,600 | 9,700 | 13 |

NOTE: percentage changes calculated from unrounded numbers

SOURCE: Bureau of Business & Economic Research, Executive Summary: The Montana Travel Industry, 1983, December 1984.

## TABLE VII - 15

## NONRESIDENT VISITORS TO MONTANA: 1979 & 1983

| Item | 1979 | 1983 |
|---|---|---|
| Number of visitors | 1,992,816 | 2,208,352 |
| Number of visitor-days* | 9,505,733 | 10,533,839 |

* based on an average of 4.77 days spent in Montana.

SOURCE: Bureau of Business & Economic Research, The Montana Travel Industry, 1983, December 1984.

## TABLE VII - 16

## MONTANA'S TECHNOLOGY-INTENSIVE SECTORS[*]

A. Mining:
  1. Gold and Silver Ores
  2. Metal Mining Services
  3. Crude Petroleum and Natural Gas

B. Manufacturing:
  1. Sugar and Confectionery Products
  2. Miscellaneous Publishing (catalogs, directories, maps)
  3. Industrial Organic Chemicals (primarily ethanol)
  4. Petroleum Refining
  5. Primary Smelting and Refining of Nonferrous Metals (aluminum and lead)
  6. Construction and Mining Machinery
  7. General Industrial Equipment
  8. Office and Computing Machines
  9. Communication Equipment
  10. Electronic Components and Accessories
  11. Engineering, Scientific, and Research Instruments

C. Services:
  1. Pipeline Transportation, except Natural Gas
  2. Combination Electric and Gas Services
  3. Services Related to the Exchange of Securities or Commodities (not brokers or dealers)
  4. Computer and Data Processing Services
  5. Research and Development Laboratories
  6. Electrical Repair Services
  7. Engineering, Architectural, and Surveying Services
  8. Noncommercial Educational, Scientific, and Research Organizations
  9. Services, Not Elsewhere Classified
  10. Federal Government, excluding Hospitals and Military
  11. State Government, excluding Education and Hospitals

---

[*] Defined as economic sectors whose proportions of scientific as well as combined scientific and technical workers are at least twice their state-wide averages of 1.8 and 3.7 percent, respectively. Scientific workers are defined as engineers, life and physical scientists, mathematical and computer specialists. Technical workers are limited to engineering and science technicians. The occupational data used were from an unpublished 1982 industry/occupation table for Montana, constructed by the Montana Department of Labor and Industry.

SOURCE: Phil Brooks, Census and Economic Information Center, Montana Department of Commerce, Appendix E to Advisory Council on Science and Technology Recommendations, 1984.

## TABLE VII - 17

## DETAILED EMPLOYMENT FOR MONTANA'S PRIVATE TECHNOLOGY-INTENSIVE ECONOMIC SECTORS*

## 1976 - 1984

| Sector | SIC[1] Code | 1976 Jobs | 1980 Jobs | 1982 Jobs | 1984[2] Jobs |
|---|---|---|---|---|---|
| Mining: | | | | | |
| Gold & Silver Ores | 104 | 90 | 406 | 728 | 834 |
| Metal Mining Services | 108 | 234 | 213 | 83 | 192 |
| Crude Petroleum & Natural Gas | 131 | 670 | 601 | 918 | 945 |
| Total Technology-Intensive Mining | | 994 | 1,220 | 1,729 | 1,975 |
| Manufacturing: | | | | | |
| Sugar & Confectionery Products | 206 | 440 | 458 | 435 | 321 |
| Misc. Publishing (catalogs, directories, maps) | 274 | 100 | 130 | 31 | 36 |
| Industrial Organic Chemicals (primarily ethanol) | 286 | 0 | 21 | 44 | 55 |
| Petroleum Refining | 291 | 978 | 1,045 | 1,065 | 929[3] |
| Primary Smelting & Refining of Non-ferrous Metals (alum. & lead) | 333 | 1,100[4] | 1,770[4] | 1,291 | (D) |
| Construction & Mining Machinery | 353 | 52 | 28 | 79 | 65 |
| General Industrial Equipment | 356 | 49 | 46 | 27 | (D) |
| Office & Computing Machines | 357 | 2 | 0 | 18 | (D) |
| Communication Equipment | 366 | 8 | 11 | 30 | (D) |
| Electronic Components & Accessories | 367 | 89 | 311 | 211 | 250 |
| Engineering, Scientific & Research Instruments | 381 | 2 | 2 | 3 | (D) |
| Total Technology-Intensive Manufacturing | | 2,820 | 3,822 | 3,234 | 3,205 |
| Private Services: | | | | | |
| Pipeline Transportation, except Natural Gas | 461 | 107 | 100 | 96 | 89 |
| Comb. Electric & Gas Services | 493 | 2,145 | 3,003 | 3,314 | (D) |
| Services related to Exchange of Securities or Commodities (not brokers or dealers) | 628 | 30 | 37 | 23 | 30 |
| Computer & Data Processing Svcs. | 737 | 156 | 312 | 262 | 485 |
| Research & Development Labs | 7391 | 26 | 49 | 58 | 73 |
| Electrical Repair Services | 762 | 134 | 206 | 208 | 233 |
| Engineering, Architectural, & Surveying Services | 891 | 1,094 | 1,410 | 1,427 | (D) |

TABLE VII - 17
(cont.)

| Sector | SIC[1] Code | 1976 Jobs | 1980 Jobs | 1982 Jobs | 1984[2] Jobs |
|---|---|---|---|---|---|
| Noncommer. Educational, Scientific & Research Organizations | 892 | 155 | 510 | 206 | 308 |
| Services not elsewhere Classified | 899 | 22 | 68 | 63 | 99 |
| Total Technology-Intensive Private Services | | 3,869 | 5,695 | 5,657 | 6,041 |
| Total Technology-Intensive Private Sectors | | 7,683 | 10,737 | 10,620 | 11,221 |

* assumes that a technology-intensive sector in 1982 is technology-intensive for all years

[1] Standard Industrial Classification Code
[2] Average for the first six months of 1984
[3] Estimated employment without the strike at the Cenex plant
[4] Excludes primary smelting and refining of copper

SOURCES:

1. Research & Analysis Bureau, Montana Dept. of Labor & Industry, 1980 Industry/Occupational Employment Projections for Montana, March 1983 and September 1984.

2. Research & Analysis Bureau, Montana Dept. of Labor & Industry, Montana Industry/Occupation Projections -- 1985, June 1980.

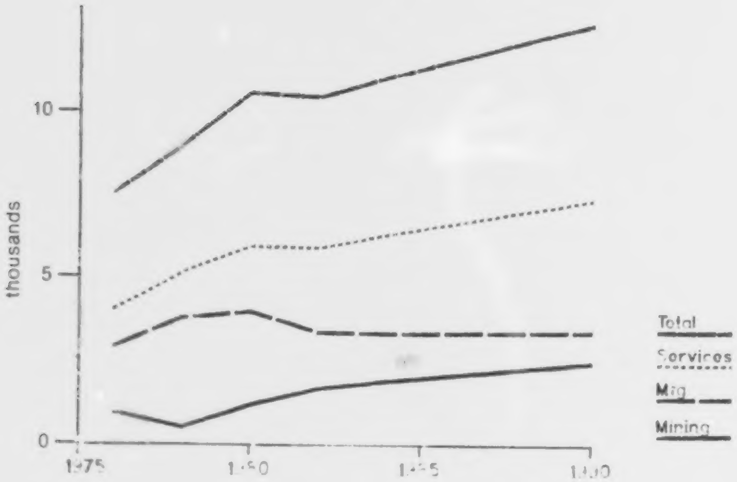
3. Research & Analysis Bureau, Montana Dept. of Labor & Industry, "202 File", (unpublished 1984 information).

4. U.S. Bureau of the Census, County Business Patterns 1976: Montana, March 1978.

5. U.S. Bureau of the Census, County Business Patterns 1980: Montana, December 1981.

## FIGURE VII-1

### EMPLOYMENT IN Montana Private Technology Intensive SECTORS



*Source: Census and Economic Information Center, Montana Department of Commerce*

## TABLE VII - 18

## MONTANA'S PRIVATE TECHNOLOGY-INTENSIVE EMPLOYMENT
## HISTORY AND PROJECTIONS
## 1976 - 1990

| Sector | 1976 Jobs | 1980 Jobs | 1984* Jobs | 1990 Jobs | Percent Change 1976-1984 |
|---|---|---|---|---|---|
| Tech. Int. Mining | 994 | 1,220 | 1,975 | 2,536 | 99 |
| Tech. Int. Manufacturing | 2,820 | 3,822 | 3,205 | 3,263 | 14 |
| Tech. Int. Services | 3,869 | 5,695 | 6,041 | 7,046 | 56 |
| Total Private Tech. | 7,683 | 10,737 | 11,221 | 12,845 | 46 |
| Total Private Non-Agri. Employment | 185,400 | 210,200 | 212,000 | NA | 14 |

* averaged for the first six months of 1984

NA - not available

SOURCES: The above table was constructed using the detailed definition of technology-intensive economic sectors in Montana's economy from the following data sources:

1. Research & Analysis Bureau, Montana Dept. of Labor & Industry, 1990 Industry/Occupational Employment Projections for Montana, March 1983 and September 1984.

2. Research & Analysis Bureau, Montana Dept. of Labor & Industry, Montana Industry/Occupation Projections - 1985, June 1980.

3. Research & Analysis Bureau, Montana Dept. of Labor & Industry, "202 File", (unpublished data).

4. U.S. Bureau of the Census, County Business Patterns 1976: Montana, March 1978.

5. U.S. Bureau of the Census, County Business Patterns 1980: Montana, December 1981.

# CHAPTER VIII

# BASIC INDUSTRIES — EMPLOYMENT AND INCOME

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## TABLE VIII - 1

## MONTANA'S MAJOR BASIC INDUSTRIES: 1983*

| Industry | Jobs | Labor Income (thou) | Value Added (thou) | Gross Receipts (thou) |
|---|---|---|---|---|
| Agriculture | 32,812 | 214,167 | 1,000,000 | 1,500,000 |
| Manufacturing | 23,780 | 518,492 | 900,000 | 4,000,000 |
| Federal Government | 21,625 | 391,813 | 400,000** | 400,000 |
| Non-resident Travel | 10,500 | 106,000 | 200,000 | 400,000 |
| Mining | 7,725 | 234,823 | 1,000,000 | 1,600,000 |

* All data are subject to revision.

** Includes labor income only and excludes depreciation.

SOURCE: Census & Economic Information Center, Montana Dept. of Commerce, November 1984. Bureau of Business & Economic Research, Executive Summary: The Montana Travel Industry, 1983, October 1984.

# TABLE VIII - 2

## BASIC EMPLOYMENT IN MONTANA

| Industry | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
|---|---|---|---|---|---|---|---|---|
| Agriculture | 38,254 | 38,642 | 38,072 | 37,532 | 38,216 | 37,212 | 34,646 | 33,214 |
| Mining: | 6,547 | 5,281 | 6,071 | 6,533 | 7,296 | 6,477 | 6,043 | 6,053 |
| Metal Mining | 3,948 | 2,897 | 3,577 | 3,746 | 3,981 | 3,108 | 2,390 | 2,069 |
| Bituminous Coal & Lignite Mining | 100 | 167 | (D) | 394 | 498 | 663 | 754 | 881 |
| Oil & Gas Extraction | 1,713 | 1,486 | (D) | 1,578 | 1,899 | 1,831 | 2,068 | 2,317 |
| Nonmetallic Minerals Mining & Quarrying (except fuels) | 786 | 731 | (D) | 815 | 927 | 875 | 831 | 786 |
| Construction (Heavy Constr. Contractors) | 4,818 | 5,132 | 5,087 | 4,031 | 3,353 | 4,054 | 3,910 | 4,616 |
| Manufacturing: | (D) | (D) | (D) | (D) | 19,735 | (D) | 19,319 | 20,597 |
| Food Processing | 4,229 | 4,144 | 4,084 | 4,184 | 4,128 | 3,729 | 3,796 | 4,086 |
| Apparel & Other Textile Products | (D) | (D) | 90 | (D) | 101 | (D) | 319 | 250 |
| Lumber & Wood Products | 8,241 | 8,639 | 8,762 | 9,014 | 9,176 | 8,368 | 9,124 | 9,946 |
| Furniture & Fixtures | 102 | 113 | (D) | (D) | (D) | 102 | 109 | (D) |
| Paper & Allied Products | (D) | (D) | (D) | 924 | 672 | 806 | 582 | 603 |
| Chemicals & Allied Products | 402 | 427 | 403 | 479 | 549 | 527 | 499 | 540 |
| Primary Metals Processing | 4,630 | 3,984 | 3,860 | 3,236 | 3,359 | 3,268 | 3,246 | (D) |
| Fabricated Metal Products | 375 | 387 | 453 | 467 | 455 | 436 | 481 | 498 |
| Machinery, except Electrical | 159 | 164 | 161 | 184 | 281 | 374 | 383 | 406 |
| Electrical Machinery | 32 | 63 | 99 | (D) | (D) | 94 | 116 | 204 |
| Transportation Equipment (except motor vehicles) | 149 | 230 | 339 | 458 | 382 | 180 | 234 | 197 |
| Motor Vehicles & Equipment | (D) | 14 | (D) | 22 | 41 | 25 | 28 | 32 |
| Instruments & Related Products | (D) | 32 | 44 | 50 | 61 | 76 | 79 | 90 |
| Misc. Manufacturing | 130 | 168 | 243 | 299 | 282 | 308 | 323 | 357 |
| Railroad Transportation | 6,424 | 6,050 | 6,349 | 6,335 | 6,658 | 6,331 | 6,465 | 6,571 |
| Services (Hotels & Other Lodging Places) | 4,504 | 4,821 | 5,057 | 5,867 | 6,205 | 5,995 | 6,311 | 6,366 |
| Total Private Basic Employment (excluding non-farm proprietors) | (D) | (D) | (D) | (D) | 81,463 | (D) | 76,239 | 77,417 |
| Federal Government: | 23,972 | 23,854 | 24,240 | 24,317 | 25,203 | 25,094 | 24,639 | 23,440 |
| Civilian | 12,000 | 11,799 | 12,329 | 12,132 | 12,915 | 13,478 | 13,331 | 13,206 |
| Military | 11,972 | 12,055 | 11,911 | 12,185 | 12,288 | 11,616 | 11,308 | 10,234 |
| Total Basic Employment | (D) | (D) | (D) | (D) | 106,666 | (D) | 101,333 | 100,857 |

NOTE: Non-farm proprietors (self-employed) are not included in this data.

## TABLE VIII - 2
(cont.)

| Industry | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Agriculture | 33,100 | 34,812 | 34,285 | 32,858 | 33,416 | 32,812 |
| Mining: | 6,922 | 7,721 | 8,818 | 11,351 | 9,384 | 7,459 |
| Metal Mining | 2,030 | 2,144 | 1,917 | 2,306 | 1,765 | 1,514 |
| Bituminous Coal & Lignite Mining | 1,239 | 1,346 | 1,393 | 1,404 | 1,283 | 1,289 |
| Oil & Gas Extraction | 2,849 | 3,356 | 4,664 | 6,825 | 5,463 | 3,749 |
| Nonmetallic Minerals Mining & Quarrying (except fuels) | 804 | 875 | 844 | 816 | 873 | 907 |
| Construction (Heavy Constr. Contractors) | 4,597 | 4,055 | 3,861 | 4,521 | 5,414 | 4,964 |
| Manufacturing: | 21,553 | 22,019 | 19,607 | 18,504 | 15,896 | 17,425 |
| Food Processing | 4,056 | 4,116 | 4,050 | 3,815 | 3,672 | 3,699 |
| Apparel & Other Textile Products | 201 | 194 | 213 | 278 | 374 | 431 |
| Lumber & Wood Products | 10,750 | 10,913 | 9,234 | 8,772 | 7,115 | 8,812 |
| Furniture & Fixtures | (D) | (D) | 106 | (D) | 135 | 159 |
| Paper & Allied Products | 658 | 712 | 809 | 836 | 801 | 865 |
| Chemicals & Allied Products | 582 | 606 | 547 | 512 | 522 | 481 |
| Primary Metals Processing | (D) | (D) | 2,641 | (D) | 1,412 | 1,180 |
| Fabricated Metal Products | 553 | 586 | 644 | 656 | 578 | 544 |
| Machinery, except Electrical | 402 | 448 | 393 | 502 | 361 | 310 |
| Electrical Machinery | 232 | 311 | 320 | 323 | 251 | 244 |
| Transportation Equipment (except motor vehicles) | 169 | 132 | 74 | 70 | 48 | 67 |
| Motor Vehicles & Equipment | 33 | 42 | 34 | 129 | 117 | 90 |
| Instruments & Related Products | 92 | 105 | 93 | 98 | 129 | 154 |
| Misc. Manufacturing | 498 | 456 | 448 | 368 | 381 | 389 |
| Railroad Transportation | 6,879 | 7,432 | 6,875 | 6,256 | 5,194 | 4,436 |
| Services (Hotels & Other Lodging Places) | 6,702 | 6,672 | 6,895 | 7,090 | 6,771 | 6,768 |
| Total Private Employment (excluding non-farm proprietors) | 79,753 | 82,711 | 80,341 | 80,580 | 76,075 | 73,864 |
| Federal Government: | 23,810 | 23,695 | 23,107 | 21,825 | 21,174 | 21,625 |
| Civilian | 13,718 | 13,919 | 13,851 | 13,657 | 13,159 | 13,070 |
| Military | 10,092 | 9,776 | 9,256 | 8,168 | 8,015 | 8,555 |
| Total Basic Employment | 103,563 | 106,406 | 103,448 | 102,405 | 97,249 | 95,489 |

(D) - Withheld to avoid disclosure of individual firms.

NOTE: Non-farm proprietors (self-employed) are not included in this data.

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished, August 1984, and Keegan, Jackson & Johnson, Montana's Forest Products Industry, 1983, p. 72, for 1981 lumber and wood products. Basic industry analysis and selection (using location quotients) by the Census & Economic Information Center, Montana Dept. of Commerce, October 1984. Paper products employment for 1976 and 1977 which is normally suppressed published with the written permission of the industry's dominant firm.

## FIGURE VIII-1
## MONTANA: EMPLOYMENT IN BASIC INDUSTRIES
## 1970-1983

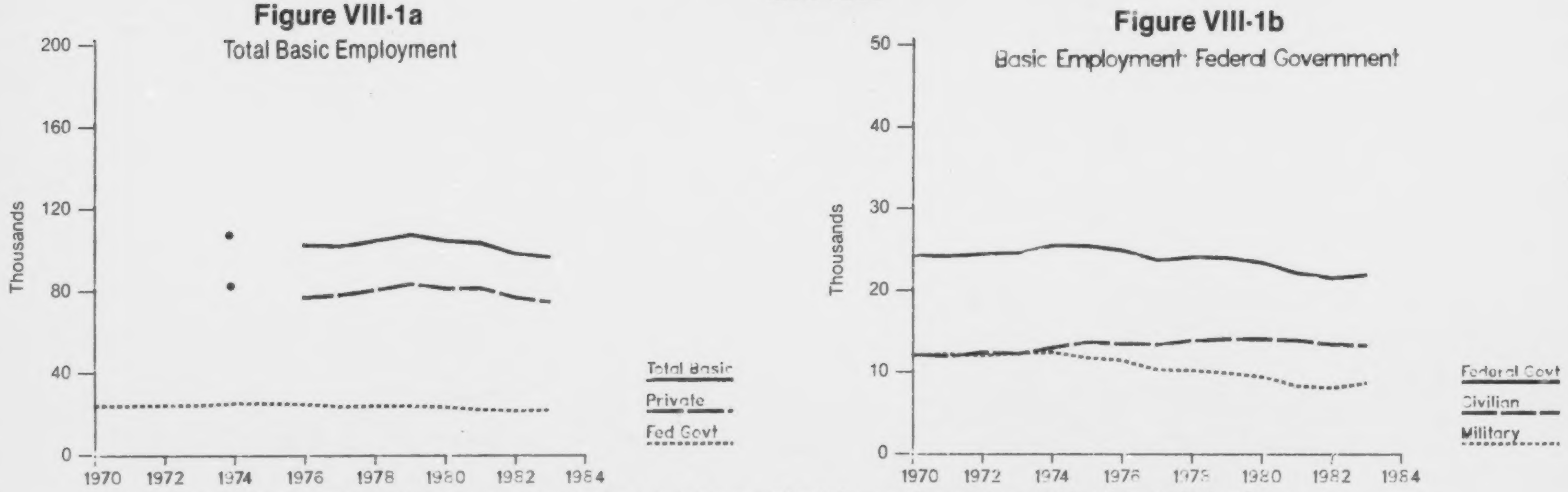

**Figure VIII-1a**
Total Basic Employment

**Figure VIII-1b**
Basic Employment: Federal Government

Note: excludes nonfarm proprietors. Missing data points indicate that data are withheld from publication to avoid identifying individual firms.

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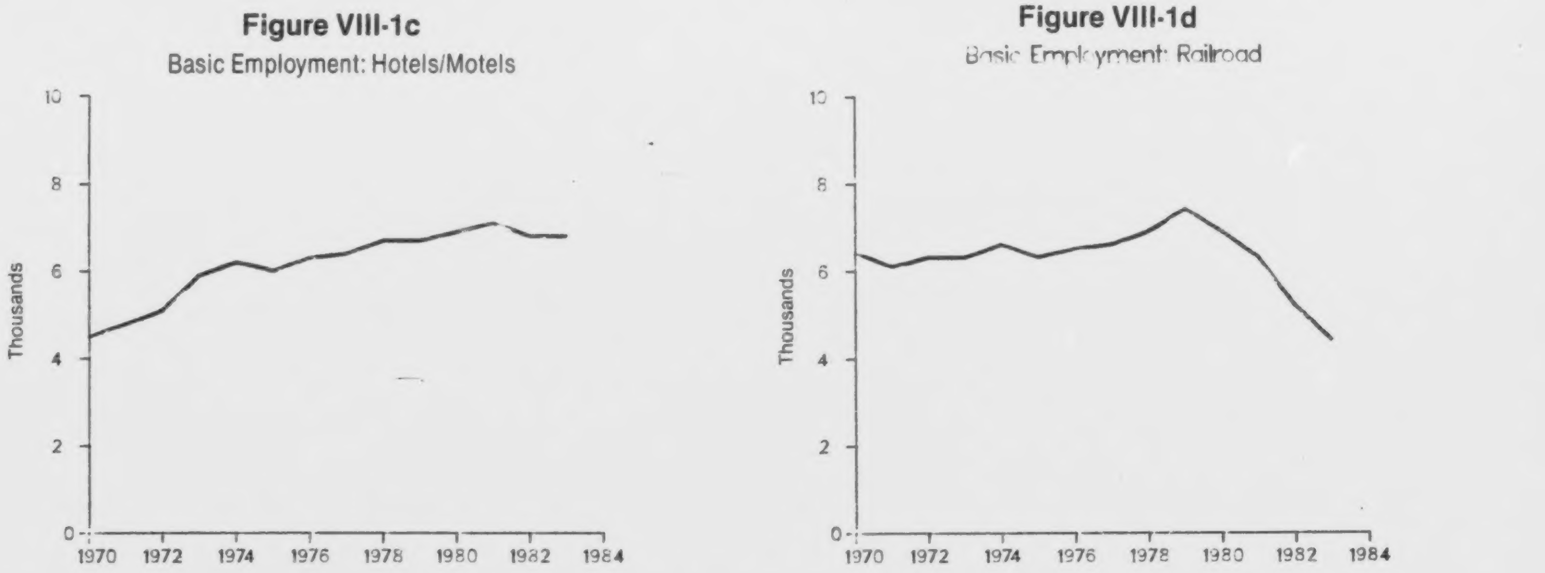


**Figure VIII-1c**
Basic Employment: Hotels/Motels

**Figure VIII-1d**
Basic Employment: Railroad

Note: Excludes non-farm proprietors.

*Source: U.S. Bureau of Economic Analysis.*

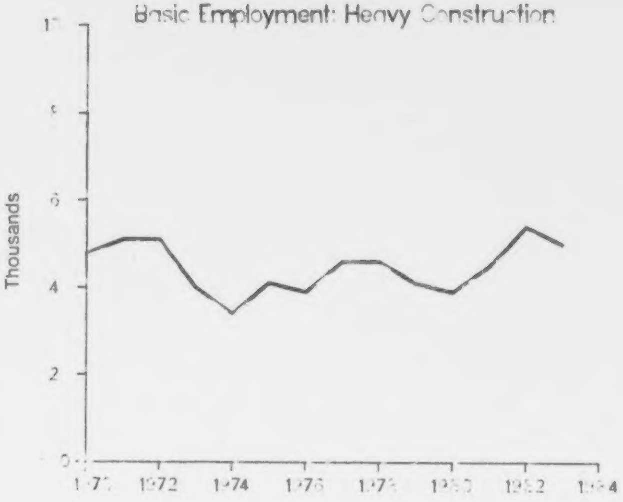
## Figure VIII-1 (continued)

## MONTANA: EMPLOYMENT IN BASIC INDUSTRIES

## 1970-1983

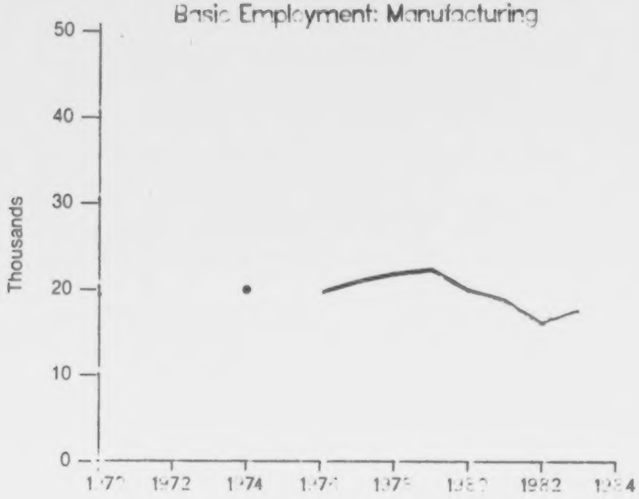
### Figure VIII-1e

Basic Employment: Heavy Construction



### Figure VIII-1f

Basic Employment: Manufacturing



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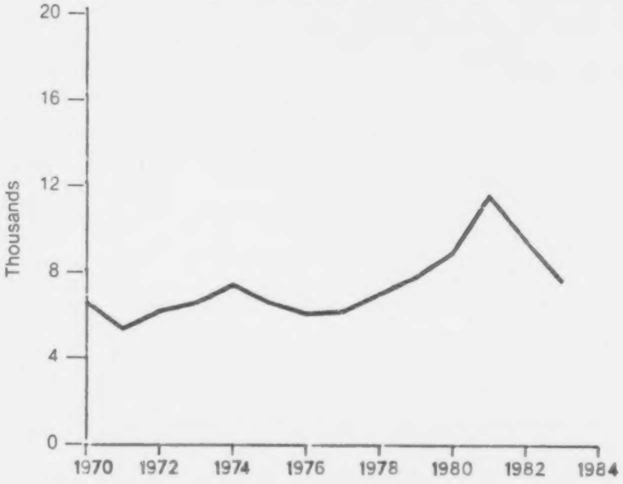
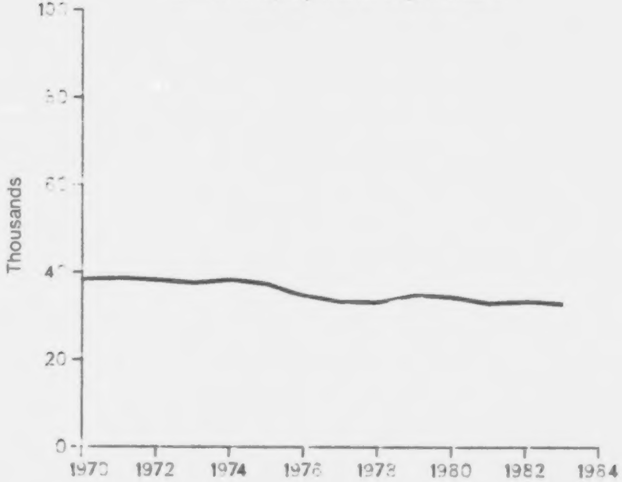
### Figure VIII-1g

Basic Employment: Mining



### Figure VIII-1h

Basic Employment: Agriculture

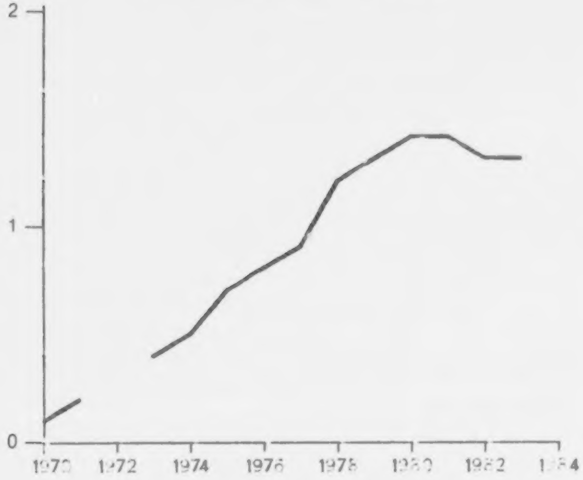


Note: excludes nonfarm proprietors. Missing data points indicate that data are withheld from publication to avoid identifying individual firms.

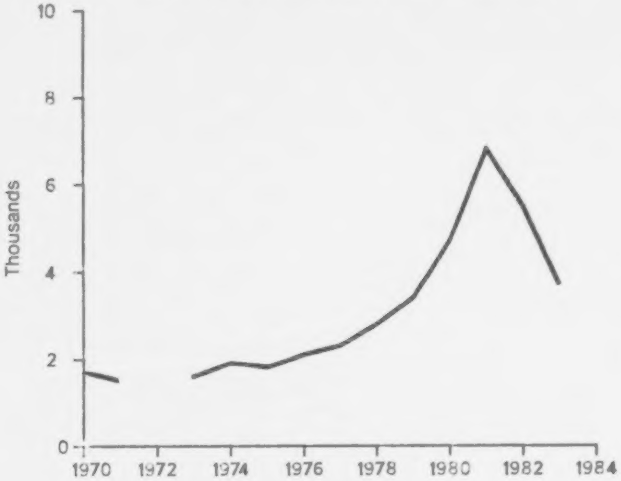
*Source: U.S. Bureau of Economic Analysis.*

## Figure VIII-1 (continued)
## MONTANA: EMPLOYMENT IN BASIC INDUSTRIES
## 1970-1983

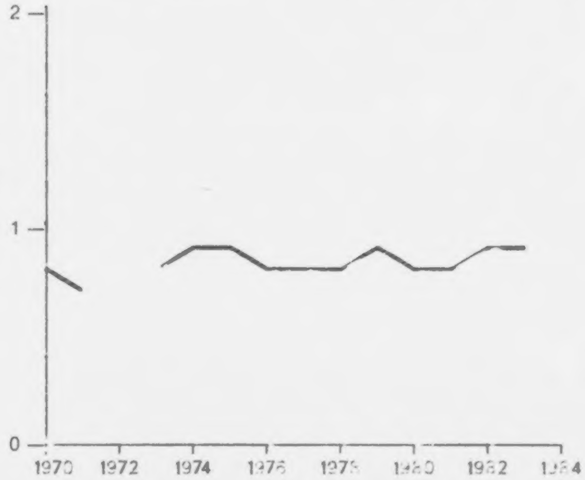
### Figure VIII-1i
Basic Employment: Coal Mining



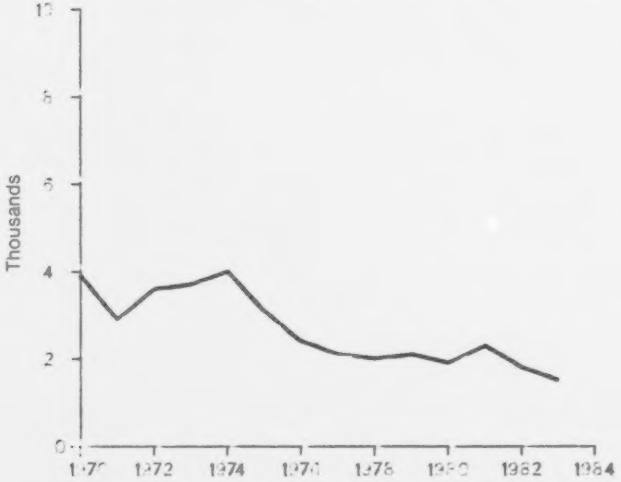
### Figure VIII-1j
Basic Employment: Oil & Gas Extraction



### Figure VIII-1k
Basic Employment: Non-Metallic Minerals Mining



### Figure VIII-1l
Basic Employment: Metal Mining



Note: excludes nonfarm proprietors. Missing data points indicate that data are withheld from publication to avoid identifying individual firms.

*Source: U.S. Bureau of Economic Analysis.*

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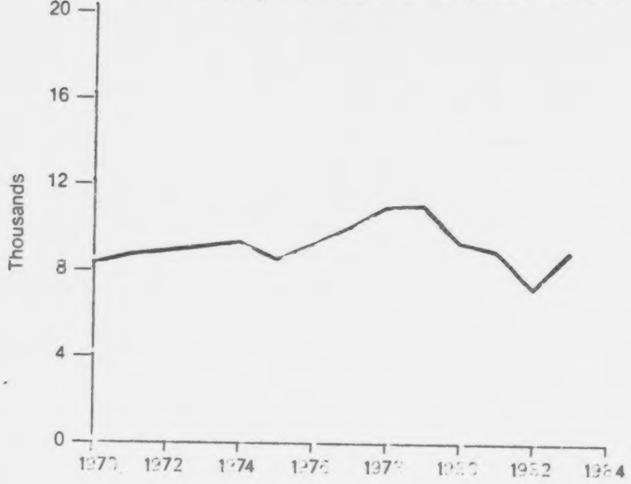
## Figure VIII-1 (continued)
## MONTANA: EMPLOYMENT IN BASIC INDUSTRIES
## 1970-1983

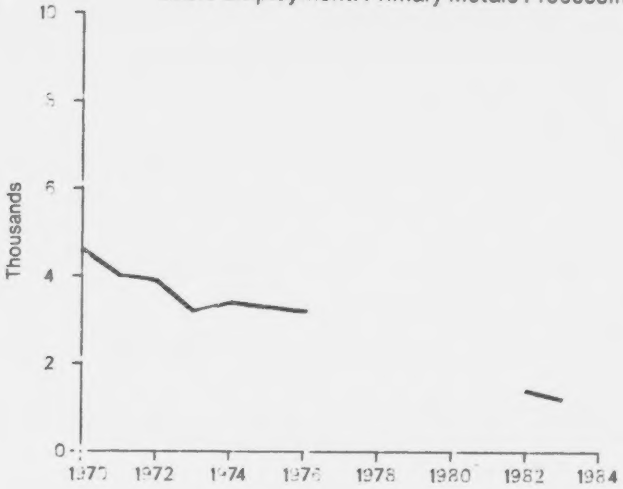
### Figure VIII-1m

Basic Employment: Lumber & Wood Products



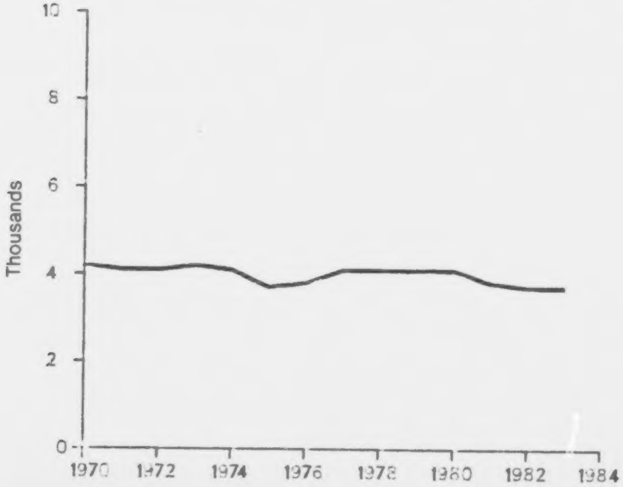
### Figure VIII-1n

Basic Employment: Primary Metals Processing



### Figure VIII-1o

Basic Employment: Food Processing



Note: Excludes non-farm proprietors. Missing data points indicate that data are withheld from publication to avoid identifying individual firms.

*Source: U.S. Bureau of Economic Analysis.*

## TABLE VIII - 3

### LABOR INCOME FROM BASIC INDUSTRIES IN MONTANA
(thousands of current dollars)

| Industry | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
|---|---|---|---|---|---|---|---|---|
| Agriculture | $286,257 | $253,910 | $405,447 | $619,776 | $456,847 | $423,817 | $255,417 | $144,833 |
| Mining: | 62,764 | 51,862 | 68,294 | 80,242 | 114,150 | 112,786 | 120,400 | 129,611 |
| Metal Mining | 38,486 | 33,327 | 41,545 | 46,538 | 53,907 | 50,574 | 38,189 | 36,730 |
| Bituminous Coal & Lignite Mining | 1,276 | 2,221 | (D) | 6,819 | 9,409 | 15,178 | 18,532 | 23,101 |
| Oil & Gas Extraction | 15,700 | 9,325 | (D) | 17,267 | 38,783 | 34,143 | 50,406 | 56,124 |
| Nonmetallic Minerals Mining & Quarrying (except fuels) | 7,302 | 6,989 | (D) | 9,618 | 12,051 | 12,891 | 13,273 | 13,656 |
| Construction (Heavy Constr. Contractors) | 55,313 | 61,855 | 67,218 | 53,332 | 49,609 | 69,641 | 77,784 | 96,763 |
| Manufacturing: | (D) | (D) | (D) | (D) | 224,719 | (D) | 271,574 | 320,324 |
| Food Processing | (D) | 33,478 | (D) | 37,108 | 40,038 | 39,802 | 43,974 | 53,154 |
| Apparel & Other Textile Products | (D) | (D) | 498 | (D) | 693 | (D) | 2,221 | 2,179 |
| Lumber & Wood Products | 66,955 | 77,415 | 81,967 | 90,939 | 101,733 | 103,410 | 127,375 | 156,909 |
| Furniture & Fixtures | 706 | 853 | (D) | (D) | (D) | 1,074 | 1,113 | (D) |
| Paper & Allied Products | (D) | (D) | (D) | 12,094 | 9,383 | 11,105 | 11,297 | 11,096 |
| Chemicals & Allied Products | 3,701 | 3,965 | 4,125 | 5,238 | 7,177 | 7,486 | 7,769 | 9,504 |
| Primary Metals Processing | 40,759 | 36,797 | 41,284 | 40,449 | 47,927 | 53,119 | 58,658 | (D) |
| Fabricated Metal Products | 3,444 | 3,522 | 4,441 | 4,872 | 5,600 | 6,264 | 7,062 | 7,843 |
| Machinery, except Electrical | 2,093 | 2,061 | 2,305 | 2,284 | 3,734 | 4,923 | 4,763 | 5,161 |
| Electrical Machinery | 243 | 529 | 765 | (D) | (D) | 873 | 1,341 | 2,241 |
| Transportation Equipment | 1,202 | 1,975 | 2,479 | 3,755 | 3,383 | 1,581 | 2,183 | 2,010 |
| Instruments & Related Products | (D) | 275 | 359 | 459 | 581 | 773 | 877 | 1,200 |
| Misc. Manufacturing | 881 | 1,164 | 1,843 | 2,326 | 2,403 | 2,791 | 2,941 | 3,613 |
| Railroad Transportation | 67,062 | 70,553 | 80,096 | 90,029 | 97,929 | 99,152 | 116,293 | 127,521 |
| Services (Hotels & Other Lodging Places) | 16,277 | 18,651 | 19,594 | 23,501 | 25,030 | 27,229 | 33,498 | 37,454 |
| Total Private Basic Earnings | (D) | (D) | (D) | (D) | 968,284 | (D) | 874,966 | 856,506 |
| Federal Government: | 160,393 | 172,607 | 193,972 | 211,263 | 233,946 | 262,054 | 268,176 | 274,460 |
| Civilian | 109,356 | 117,473 | 132,474 | 142,245 | 161,069 | 189,359 | 192,542 | 203,407 |
| Military | 51,037 | 55,134 | 61,498 | 69,018 | 72,877 | 72,695 | 75,634 | 71,053 |
| Total Basic Labor Income | (D) | (D) | (D) | (D) | $1,202,230 | (D) | $1,143,142 | $1,130,966 |

# TABLE VIII - 3
(cont.)

| Industry | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Agriculture | $ 320,900 | $ 175,064 | $ 248,162 | $ 322,758 | $ 233,053 | $ 214,167 |
| Mining: | 145,841 | 202,014 | 245,515 | 322,437 | 294,081 | 234,823 |
| Metal Mining | 39,188 | 45,943 | 48,764 | 61,730 | 48,143 | 47,982 |
| Bituminous Coal & Lignite Mining | 35,209 | 42,354 | 45,698 | 50,841 | 51,217 | 53,125 |
| Oil & Gas Extraction | 57,382 | 96,862 | 132,799 | 193,438 | 176,715 | 113,284 |
| Nonmetallic Minerals Mining & Quarrying (except fuels) | 14,062 | 16,855 | 18,254 | 16,428 | 18,006 | 20,432 |
| Construction (Heavy Constr. Contractors) | 105,702 | 95,810 | 90,741 | 126,957 | 152,458 | 142,166 |
| Manufacturing: | 375,065 | 412,213 | 399,706 | 402,087 | 353,318 | 405,664 |
| Food Processing | 56,740 | 62,425 | 67,792 | 71,764 | 71,019 | 72,757 |
| Apparel & Other Textile Products | 1,733 | 1,820 | 2,380 | 3,110 | 4,882 | 6,118 |
| Lumber & Wood Products | 192,557 | 205,008 | 181,258 | 185,000 | 156,391 | 208,073 |
| Furniture & Fixtures | (D) | (D) | 1,741 | (D) | 2,122 | 2,737 |
| Paper & Allied Products | 14,735 | 17,441 | 23,142 | 26,318 | 25,429 | 30,211 |
| Chemicals & Allied Products | 11,227 | 12,854 | 12,812 | 13,033 | 14,507 | 13,809 |
| Primary Metals Processing | (D) | (D) | 76,599 | (D) | 45,440 | 38,690 |
| Fabricated Metal Products | 8,926 | 11,304 | 13,852 | 14,388 | 13,064 | 12,711 |
| Machinery, except Electrical | 6,138 | 7,527 | 7,723 | 9,582 | 7,910 | 6,808 |
| Electrical Machinery | 2,983 | 4,270 | 4,627 | 4,555 | 3,926 | 4,094 |
| Transportation Equipment | 1,801 | 1,513 | 936 | 1,099 | 737 | 1,037 |
| Instruments & Related Products | 1,346 | 1,514 | 1,565 | 1,734 | 2,133 | 2,882 |
| Misc. Manufacturing | 5,338 | 5,202 | 5,279 | 5,431 | 5,758 | 5,737 |
| Railroad Transportation | 148,581 | 178,030 | 181,152 | 176,635 | 163,773 | 152,387 |
| Services (Hotels & Other Lodging Places) | 44,126 | 47,068 | 51,455 | 48,649 | 39,915 | 46,120 |
| Total Private Basic Earnings | 1,140,215 | 1,110,199 | 1,216,731 | 1,399,523 | 1,236,598 | 1,195,327 |
| Federal Government: | 294,522 | 315,666 | 332,657 | 359,695 | 370,486 | 391,813 |
| Civilian | 221,649 | 241,491 | 257,806 | 278,354 | 282,249 | 298,500 |
| Military | 72,873 | 74,175 | 74,851 | 81,341 | 88,237 | 93,313 |
| Total Basic Labor Income | 1,434,737 | 1,425,865 | 1,549,388 | 1,759,218 | 1,607,084 | 1,587,140 |

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished data, August 1984 and Keegan, Jackson & Johnson, Montana's Forest Products Industry, 1983, p. 71 for 1981 lumber and wood products.

# TABLE VIII - 4

## LABOR INCOME FROM BASIC INDUSTRIES IN MONTANA
(thousands of constant 1983 dollars)

| Industry | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
|---|---|---|---|---|---|---|---|---|
| Agriculture | $ 661,022 | $ 562,023 | $ 866,035 | $1,252,452 | $ 838,338 | $ 722,485 | $ 414,253 | $ 222,084 |
| Mining: | 144,934 | 114,795 | 145,876 | 162,154 | 209,471 | 192,267 | 195,273 | 198,743 |
| Metal Mining | 88,871 | 73,768 | 88,740 | 94,045 | 98,922 | 86,214 | 61,938 | 56,321 |
| Bituminous Coal & Lignite Mining | 2,947 | 4,916 | (D) | 13,780 | 17,266 | 25,874 | 30,056 | 35,423 |
| Oil & Gas Extraction | 36,254 | 20,641 | (D) | 34,893 | 71,169 | 58,204 | 81,752 | 86,059 |
| Nonmetallic Minerals Mining & Quar. | 16,862 | 15,470 | (D) | 19,436 | 22,114 | 21,975 | 21,527 | 20,940 |
| Construction (Heavy Constr. Contr.) | 127,728 | 136,914 | 143,578 | 107,774 | 91,035 | 118,718 | 126,155 | 148,375 |
| Manufacturing | (D) | (D) | (D) | (D) | 412,371 | (D) | 440,457 | 491,179 |
| Railroad Transportation | 154,859 | 156,167 | 171,085 | 181,932 | 179,705 | 169,025 | 188,612 | 195,538 |
| Services (Hotels & Other Lodg. Places) | 37,587 | 41,283 | 41,853 | 47,491 | 45,931 | 46,418 | 54,329 | 57,431 |
| Total Private Labor Income | (D) | (D) | (D) | (D) | 1,776,851 | (D) | 1,419,079 | 1,313,350 |
| Federal Government: | 370,378 | 382,061 | 414,324 | 426,923 | 429,303 | 446,726 | 434,946 | 420,852 |
| Civilian | 252,524 | 260,023 | 282,964 | 287,451 | 295,570 | 322,802 | 312,278 | 311,900 |
| Military | 117,854 | 122,038 | 131,360 | 139,473 | 133,733 | 123,924 | 122,668 | 108,951 |
| Total Labor Income | (D) | (D) | (D) | (D) | $2,206,154 | (D) | $1,854,025 | $1,734,202 |

| Industry | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Agriculture | $ 459,720 | $ 230,115 | $ 296,131 | $ 354,453 | $ 241,641 | $ 214,167 |
| Mining: | 208,931 | 265,540 | 292,972 | 354,100 | 304,931 | 234,823 |
| Metal Mining | 56,141 | 60,390 | 58,190 | 67,792 | 49,919 | 47,982 |
| Bituminous Coal & Lignite Mining | 50,440 | 55,673 | 54,531 | 55,834 | 53,107 | 53,125 |
| Oil & Gas Extraction | 82,205 | 127,321 | 158,469 | 212,434 | 183,235 | 113,284 |
| Nonmetallic Minerals Mining & Quarrying | 20,145 | 22,155 | 21,782 | 18,041 | 18,670 | 20,432 |
| Construction (Heavy Constr. Contractors) | 151,428 | 125,939 | 108,281 | 139,424 | 158,083 | 142,166 |
| Manufacturing | 537,316 | 541,838 | 476,968 | 441,572 | 366,353 | 405,664 |
| Railroad Transportation | 212,856 | 234,014 | 216,168 | 193,981 | 169,815 | 152,387 |
| Services (Hotels & Other Lodging Places) | 63,215 | 61,869 | 61,401 | 53,426 | 41,388 | 46,120 |
| Total Labor Income | 1,633,467 | 1,459,314 | 1,451,920 | 1,536,957 | 1,282,220 | 1,195,327 |
| Federal Government: | 421,931 | 414,931 | 396,958 | 395,017 | 384,154 | 391,813 |
| Civilian | 317,533 | 317,431 | 307,639 | 306,689 | 292,662 | 298,500 |
| Military | 104,398 | 97,500 | 89,319 | 89,329 | 91,492 | 93,313 |
| Total Labor Income | $2,055,398 | $1,874,245 | $1,848,879 | $1,931,974 | $1,666,374 | $1,587,140 |

NOTE: Earnings considered basic are from the industrial sectors identified in the preceding table. Not all basic earnings are presented here, since these figures are only approximations. For example, there is underestimation of service earnings where it is thought that actual basic earnings are about three times the earnings generated from hotel & other lodging places. Also, pipeline transportation is considered basic but is omitted altogether here because of disclosure problems.

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished data, August 1984. Constant 1983 dollar calculations by the Census & Economic Information Center, Montana Dept. of Commerce, October, 1984, using the implicit price deflators for consumption.

## FIGURE VIII-2
## MONTANA LABOR INCOME FROM BASIC INDUSTRIES
## 1970-1983

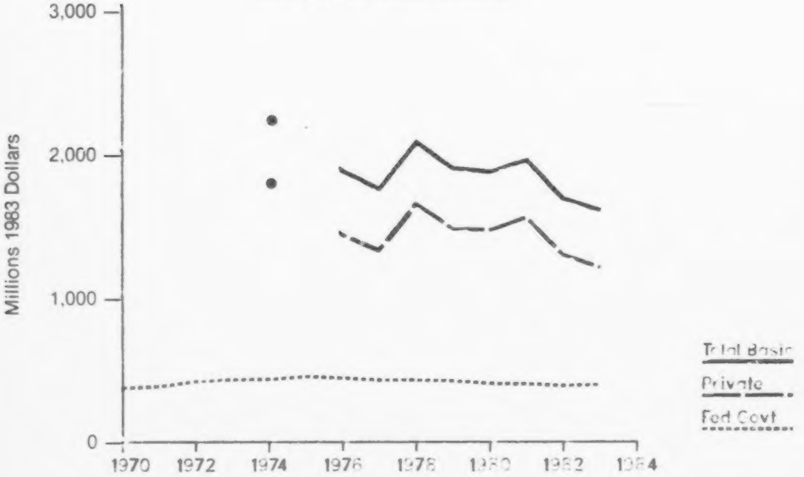


**Figure VIII-2a**
Total Basic Labor Income

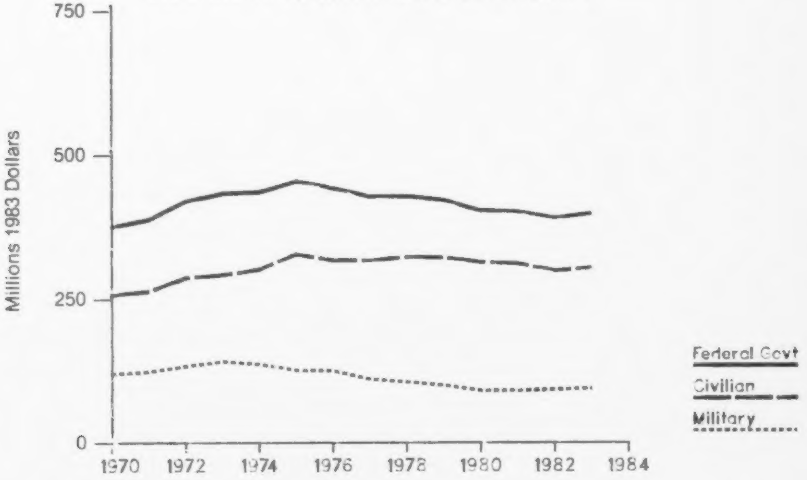


**Figure VIII-2b**
Basic Labor Income: Federal Government

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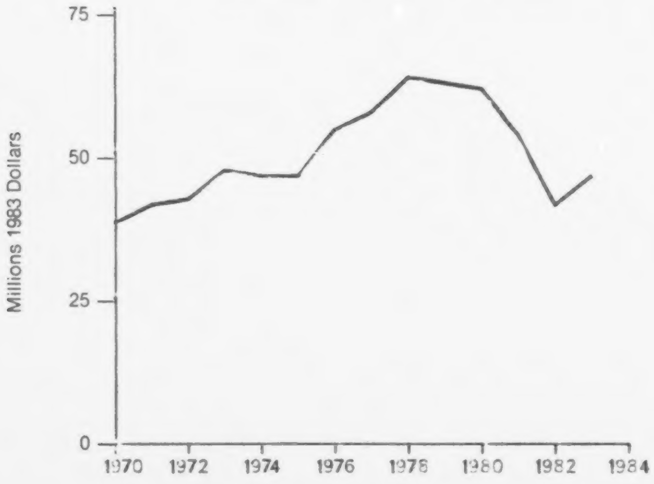


**Figure VIII-2c**
Basic Labor Income: Hotels/Motels

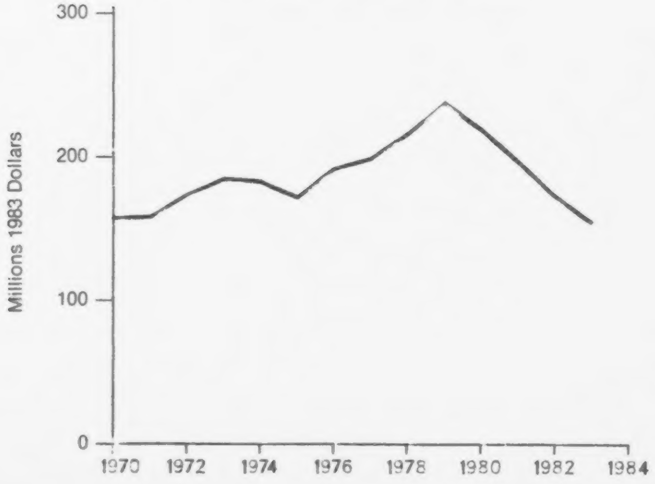


**Figure VIII-2d**
Basic Labor Income: Railroad

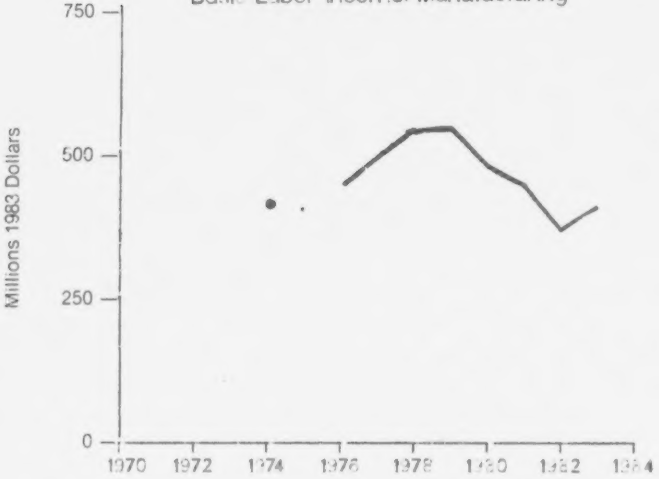
Note: Missing data points indicate that data are withheld from publication to avoid identifying individual firms.

*Source: U.S. Bureau of Economic Analysis.*

## Figure VIII-2 (continued)
## MONTANA LABOR INCOME FROM BASIC INDUSTRIES
## 1970-1983

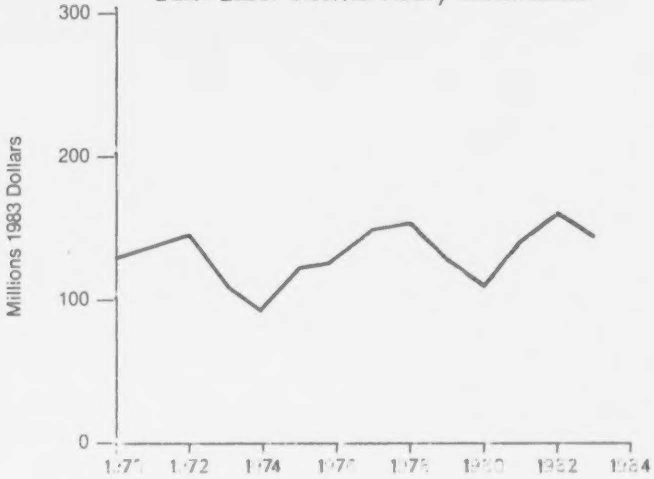
### Figure VIII-2e

Basic Labor Income: Manufacturing



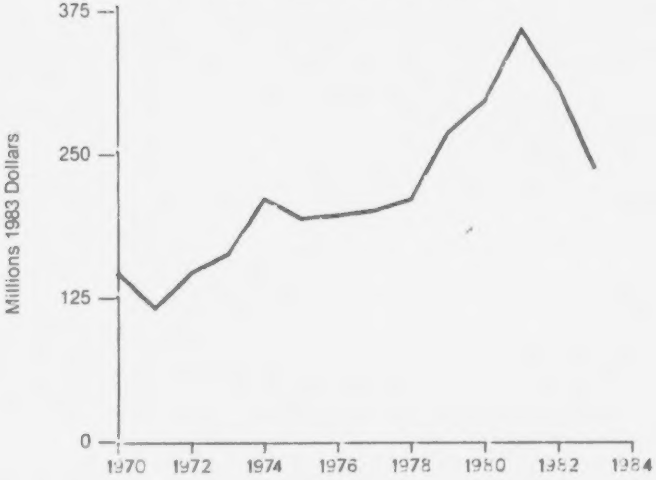
### Figure VIII-2f

Basic Labor Income: Heavy Construction



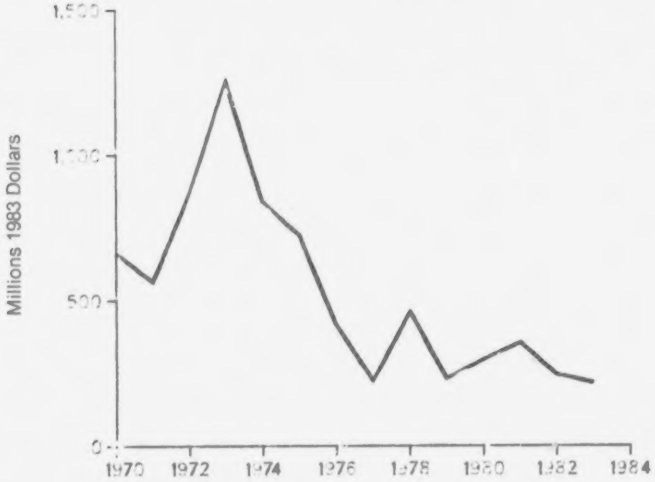
### Figure VIII-2g

Basic Labor Income: Mining



### Figure VIII-2h

Basic Labor Income: Agriculture



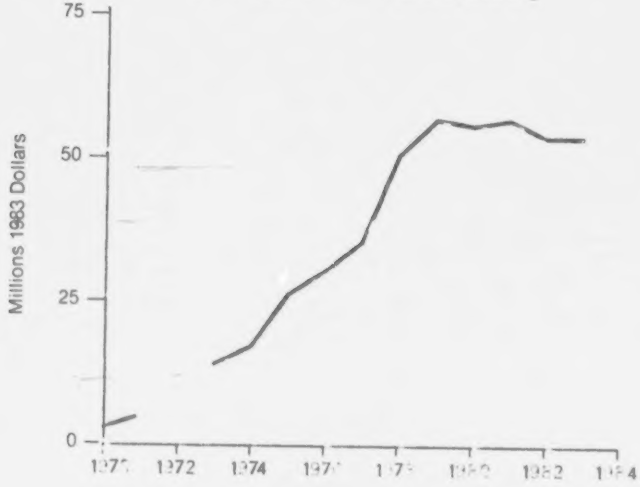
Note: Missing data points indicate that data are withheld from publication to avoid identifying individual firms.

*Source: U.S. Bureau of Economic Analysis.*

## Figure VIII-2 (continued)
## MONTANA: LABOR INCOME FROM BASIC INDUSTRIES
## 1970-1983

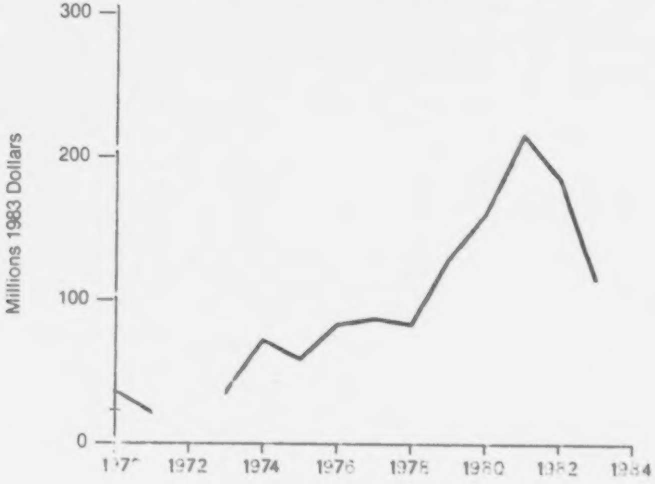
### Figure VIII-2i

Basic Labor Income: Coal Mining



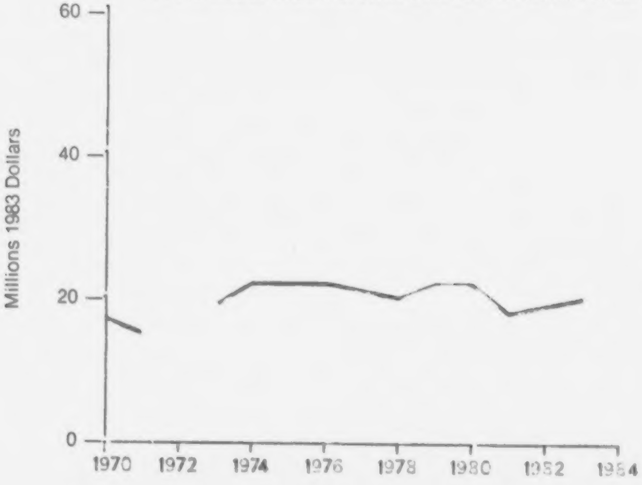
### Figure VIII-2j

Basic Labor Income: Oil & Gas Extraction



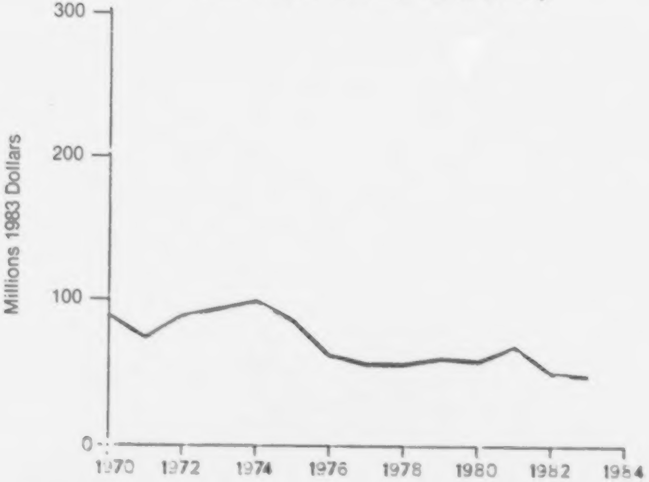
### Figure VIII-2k

Basic Labor Income: Non-Metallic Minerals Mining



### Figure VIII-2l

Basic Labor Income: Metal Mining



Note: Missing data points indicate that data are withheld from publication to avoid identifying individual firms.

*Source: U.S. Bureau of Economic Analysis.*

## TABLE VIII - 5

## MONTANA SECONDARY EMPLOYMENT MULTIPLIERS
(basic sectors only)

| Sector | Secondary Employment Multipliers |
|---|---|
| Agriculture | 1.36 |
| Metal Mining | 2.14 |
| Coal Mining | 2.39 |
| Oil & Gas Mining | 1.88 |
| Other Mining | 1.88 |
| Wood & Paper Products | 1.73 |
| Primary Metals Manufacturing | 1.98 |
| Other Durable Manufacturing | 1.55 |
| Food & Kindred Products | 1.51 |
| Petroleum Refining | 2.32 |
| Other Nondurable Manufacturing | 1.51 |
| Tourism (Basic Component) | 0.73 |

NOTE: It is thought that the multipliers above would be more valid in urban areas than in rural areas. An example of how the multipliers work is that in tourism, for every job in the sector there is 0.73 of a job elsewhere in the economy.

SOURCE: Derived from Bruce Finnie, Report on Non-Interest Rate Return to State, Helena, Montana Dept. of Commerce, January 1983. Methodology included using the Montana Alternative Simulation System II (MASS), 1981. The MASS model is at the Census & Economic Information Center, Montana Dept. of Commerce.

## TABLE VIII - 6

## MANUFACTURING & EXPORT-RELATED MANUFACTURING: VALUE OF SHIPMENTS IN MONTANA BY INDUSTRY GROUP

(in millions)

| SIC Code | Item | 1972 | 1976 | 1977 | 1980 | 1981 |
|---|---|---|---|---|---|---|
| 20 | Food & Kindred Products | | | | | |
| | Total* | (NA) | $243.6 | $392.1 | $572.8 | $615.3 |
| | For Export** | (NA) | 24.5 | 37.7 | 6.8 | 7.1 |
| | For Export/Total | (NA) | 7.1% | 9.6% | 1.2% | 1.2% |
| 23 | Apparel, Other Textile Products | | | | | |
| | Total | (NA) | (NA) | (NA) | (NA) | (Z) |
| | For Export | (NA) | (NA) | (NA) | (NA) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 24 | Lumber & Wood Products | | | | | |
| | Total | (NA) | 441.3 | 614.9 | 726.3 | 733.4 |
| | For Export | (NA) | 10.2 | 9.8 | 20.6 | 20.0 |
| | For Export/Total | (NA) | 2.3% | 1.6% | 2.8% | 2.7% |
| 25 | Furniture & Fixtures | | | | | |
| | Total | (NA) | (NA) | (NA) | 7.2 | 6.8 |
| | For Export | (NA) | (NA) | (NA) | (Z) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (Z) | (NA) |
| 26 | Paper & Allied Products | | | | | |
| | Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| | For Export | (NA) | (NA) | (NA) | (NA) | (NA) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 27 | Printing & Publishing | | | | | |
| | Total | (NA) | (NA) | 62.3 | 84.6 | 94.0 |
| | For Export | (NA) | (NA) | 0.1 | 0.2 | 0.2 |
| | For Export/Total | (NA) | (NA) | 0.2% | 0.2% | 0.2% |
| 28 | Chemicals, Allied Products | | | | | |
| | Total | (NA) | 64.6 | 63.8 | 138.1 | 138.8 |
| | For Export | (NA) | 4.4 | 8.5 | 6.8 | 8.7 |
| | For Export/Total | (NA) | 6.8% | 13.3% | 4.9% | 6.3% |
| 29 | Petroleum & Coal Products | | | | | |
| | Total | (NA) | (NA) | (NA) | 1668.4 | 1866.5 |
| | For Export | (NA) | (NA) | (NA) | (Z) | 1.3 |
| | For Export/Total | (NA) | (NA) | (NA) | (Z) | 0.1% |

## TABLE VIII - 6
(cont.)

| SIC Code | Item | 1972 | 1976 | 1977 | 1980 | 1981 |
|---|---|---|---|---|---|---|
| 30 | Rubber, Misc. Plastic Products | | | | | |
| | Total | (NA) | (NA) | (NA) | 2.3 | 2.7 |
| | For Export | (NA) | (NA) | (NA) | (Z) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 31 | Leather, Leather Products | | | | | |
| | Total | (NA) | (NA) | (NA) | (NA) | 2.2 |
| | For Export | (NA) | (NA) | (NA) | (NA) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 32 | Stone, Clay & Glass Products | | | | | |
| | Total | (NA) | (NA) | (NA) | 110.6 | 122.1 |
| | For Export | (NA) | (NA) | (NA) | 0.1 | 0.1 |
| | For Export/Total | (NA) | (NA) | (NA) | 0.1% | 0.1% |
| 34 | Fabricated Metal Products | | | | | |
| | Total | (NA) | (NA) | (NA) | 84.9 | 52.3 |
| | For Export | (NA) | (NA) | (NA) | 0.9 | 0.6 |
| | For Export/Total | (NA) | (NA) | (NA) | 1.1% | 1.1% |
| 35 | Machinery, except Electric | | | | | |
| | Total | (NA) | (NA) | 17.4 | 11.8 | 14.2 |
| | For Export | (NA) | (NA) | 0.3 | 0.3 | 0.5 |
| | For Export/Total | (NA) | (NA) | 1.7% | 2.5% | 3.5% |
| 36 | Electric, Electronic Equipment | | | | | |
| | Total | (NA) | (NA) | (NA) | 44.5 | 35.7 |
| | For Export | (NA) | (NA) | (NA) | 9.4 | 8.4 |
| | For Export/Total | (NA) | (NA) | (NA) | 21.1% | 23.5% |
| 37 | Transportation Equipment | | | | | |
| | Total | (NA) | S | 9.4 | 3.9 | 4.1 |
| | For Export | (NA) | S | 1.1 | (Z) | 0.1 |
| | For Export/Total | (NA) | S | 11.7% | (NA) | 2.4% |
| 38 | Instruments, Related Products | | | | | |
| | Total | (NA) | (NA) | (NA) | 3.7 | 4.8 |
| | For Export | (NA) | (NA) | (NA) | (Z) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 39 | Misc. Manufacturing Industries | | | | | |
| | Total | (NA) | (NA) | (NA) | 20.6 | 18.2 |
| | For Export | (NA) | (NA) | (NA) | 0.5 | 0.5 |
| | For Export/Total | (NA) | (NA) | (NA) | 2.4% | 2.7% |

## TABLE VIII - 6
(cont.)

| SIC Code | Item | 1972 | 1976 | 1977 | 1980 | 1981 |
|---|---|---|---|---|---|---|
| | Montana Totals: | | | | | |
| | Total | 1596.7 | 2524.9 | 2669.9 | 4710.3 | 4289.6 |
| | For Export | (D) | 43.9 | 59.3 | 54.6 | 61.4 |
| | For Export/Total | (D) | 1.7% | 2.2% | 1.2% | 1.4% |

NA - not available
Z - less than $50,000
S - data not published because of large sampling error
D - data not disclosed to avoid identifying individual firms

* all "Totals" include total domestic and export shipments for all manufacturing establishments.

** all "For Export" entries include only the value of manufactured products exported by the producing plants.

NOTE: The export-related employment data shown do not include the jobs involved in the export of manufactured goods such as farm products, minerals, and various services sold to foreign buyers such as transportation, insurance, motion pictures, financial services, etc. Thus, jobs in the manufacturing sector that relate to the export of nonmanufactured goods are excluded from the estimates. In addition, all of the indirect exports being reported are domestically produced; that is, they exclude imports. The methodology used to exclude import shares as described in the text are based on the assumption that the import content for a product is the same for all consumers.

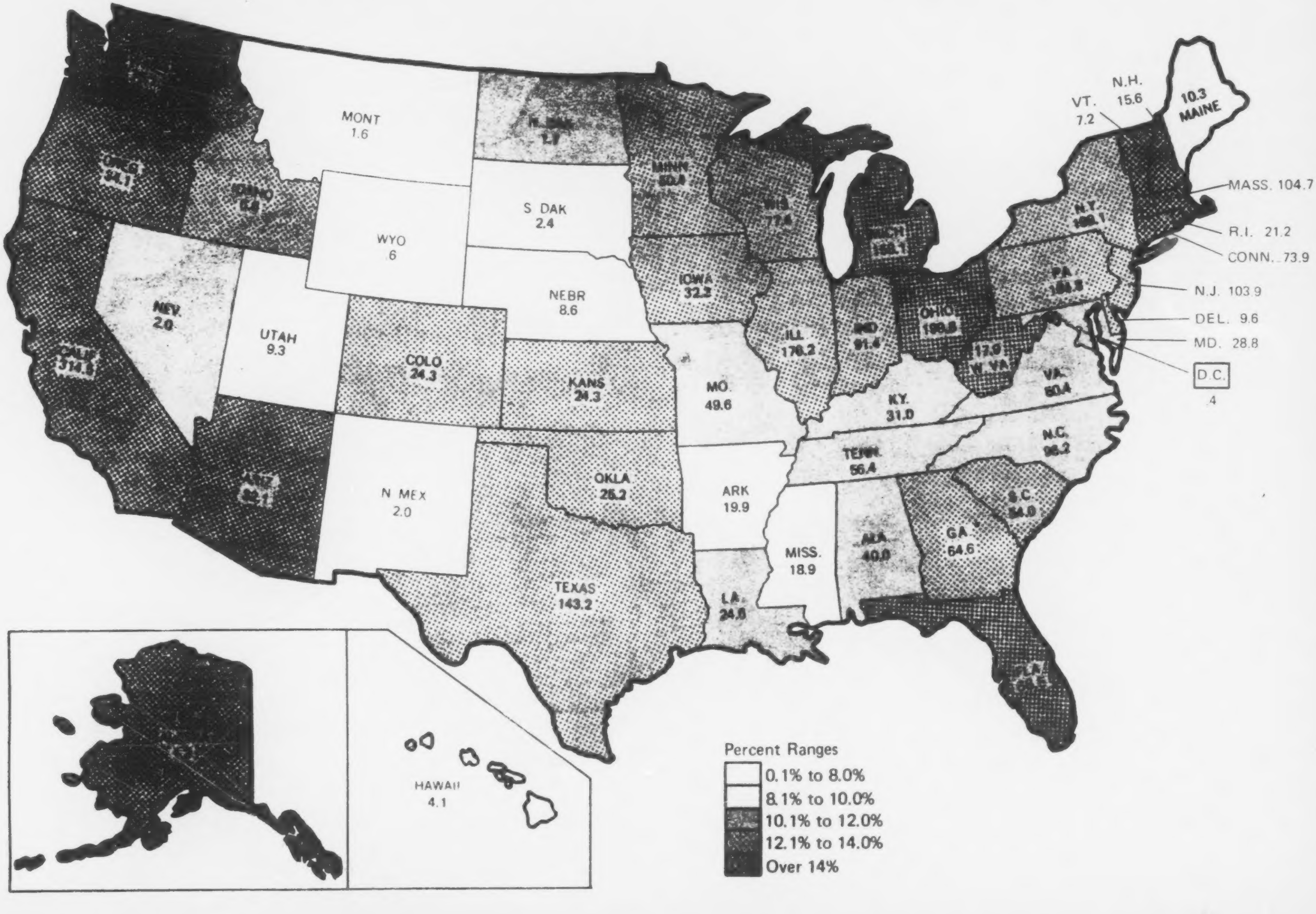
Data are based on a sample, and are not comparable with data in basic employment table.

SOURCE: U.S. Bureau of the Census, 1981 Annual Survey of Manufacturers; Origin of Exports of Manufactured Products and Annual Survey of Manufacturers, 1976; Origin of Exports of Manufacturing Establishments.

## FIGURE VIII-3

## Manufacturing Employment Related to Manufactured Exports for States: 1980

(Shading indicates export-related employment as a percentage of manufacturing employment. Numbers are export-related employment in thousands)



MONT 1.6
N. DAK. 1.7
MINN 60.4
WIS 77.4
MICH 168.1
N.Y.
PA 184.5
OHIO 198.8
VT. 7.2
N.H. 15.6
10.3 MAINE
MASS. 104.7
R.I. 21.2
CONN. 73.9
N.J. 103.9
DEL. 9.6
MD. 28.8
D.C. .4
OREG 54.1
IDAHO 6.8
WYO .6
S DAK 2.4
NEBR 8.6
IOWA 32.2
NEV. 2.0
UTAH 9.3
COLO 24.3
KANS 24.3
MO. 49.6
ILL 176.2
IND 91.4
17.9 W. VA
KY. 31.0
VA. 60.4
CALIF 314.
ARIZ 62.1
N MEX 2.0
OKLA 25.2
ARK 19.9
TENN. 56.4
N.C. 96.2
S.C. 34.0
TEXAS 143.2
MISS. 18.9
ALA. 40.0
GA. 64.6
LA. 24.8
FLA.
HAWAII 4.1
Percent Ranges
0.1% to 8.0%
8.1% to 10.0%
10.1% to 12.0%
12.1% to 14.0%
Over 14%

SA 234

TABLE VIII - 7

## MANUFACTURING & EXPORT-RELATED MANUFACTURING: EMPLOYMENT IN MONTANA BY INDUSTRY GROUP

(in thousands)

| SIC Code | Item | 1972 | 1976 | 1977 | 1980 | 1981 |
|---|---|---|---|---|---|---|
| 20 | Food & Kindred Products | | | | | |
| | Total* | (NA) | 3.4 | 3.4 | 3.5 | 3.9 |
| | For Export** | (NA) | 0.2 | 0.1 | (Z) | (Z) |
| | For Export/Total | (NA) | 4.5% | 2.9% | (NA) | (NA) |
| 22 | Textile & Mill Products | | | | | |
| | Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| | For Export | (NA) | (NA) | (NA) | (NA) | (NA) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 23 | Apparel, Other Textile Products | | | | | |
| | Total | (NA) | (NA) | (NA) | (NA) | (Z) |
| | For Export | (NA) | (NA) | (NA) | (NA) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 24 | Lumber & Wood Products | | | | | |
| | Total | (NA) | 7.2 | 9.8 | 9.5 | 8.7 |
| | For Export | (NA) | 0.2 | 0.1 | 0.2 | 0.2 |
| | For Export/Total | (NA) | 2.8% | 1.0% | 2.1% | 2.3% |
| 25 | Furniture & Fixtures | | | | | |
| | Total | (NA) | (NA) | (NA) | 0.2 | 0.2 |
| | For Export | (NA) | (NA) | (NA) | (Z) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 26 | Paper & Allied Products | | | | | |
| | Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| | For Export | (NA) | (NA) | (NA) | (NA) | (NA) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 27 | Printing & Publishing | | | | | |
| | Total | (NA) | (NA) | 1.8 | 2.5 | 2.5 |
| | For Export | (NA) | (NA) | (Z) | (Z) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 28 | Chemicals, Allied Products | | | | | |
| | Total | (NA) | 0.4 | 0.5 | 0.8 | 0.8 |
| | For Export | (NA) | (Z) | (Z) | (Z) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |

TABLE VIII - 7
(cont.)

| SIC Code | Item | 1972 | 1976 | 1977 | 1980 | 1981 |
|---|---|---|---|---|---|---|
| 29 | Petroleum & Coal Products | | | | | |
| | Total | (NA) | (NA) | (NA) | 0.9 | 1.0 |
| | For Export | (NA) | (NA) | (NA) | (Z) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 30 | Rubber, Misc. Plastic Products | | | | | |
| | Total | (NA) | (NA) | (NA) | (Z) | (Z) |
| | For Export | (NA) | (NA) | (NA) | (Z) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 31 | Leather, Leather Products | | | | | |
| | Total | (NA) | (NA) | (NA) | (NA) | 0.1 |
| | For Export | (NA) | (NA) | (NA) | (NA) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 32 | Stone, Clay & Glass Products | | | | | |
| | Total | (NA) | (NA) | (NA) | 1.2 | 1.2 |
| | For Export | (NA) | (NA) | (NA) | (Z) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 34 | Fabricated Metal Products | | | | | |
| | Total | (NA) | (NA) | (NA) | 1.3 | 0.8 |
| | For Export | (NA) | (NA) | (NA) | (Z) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 35 | Machinery, except Electric | | | | | |
| | Total | (NA) | (NA) | 0.4 | 0.3 | 0.3 |
| | For Export | (NA) | (NA) | (Z) | (Z) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| 36 | Electric, Electronic Equipment | | | | | |
| | Total | (NA) | (NA) | (NA) | 0.6 | 0.5 |
| | For Export | (NA) | (NA) | (NA) | 0.1 | 0.1 |
| | For Export/Total | (NA) | (NA) | (NA) | 16.7% | 20.0% |
| 37 | Transportation Equipment | | | | | |
| | Total | (NA) | 0.7 | 0.2 | 0.1 | 0.1 |
| | For Export | (NA) | (Z) | (Z) | (Z) | (Z) |
| | For Export/Total | (NA) | (Z) | (NA) | (NA) | (NA) |
| 38 | Instruments, Related Products | | | | | |
| | Total | (NA) | (NA) | (NA) | 0.1 | 0.1 |
| | For Export | (NA) | (NA) | (NA) | (Z) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |

## TABLE VIII - 7
(cont.)

| SIC Code | Item | 1972 | 1976 | 1977 | 1980 | 1981 |
|---|---|---|---|---|---|---|
| 39 | Misc. Manufacturing Industries | | | | | |
| | Total | (NA) | (NA) | (NA) | 0.6 | 0.6 |
| | For Export | (NA) | (NA) | (NA) | (Z) | (Z) |
| | For Export/Total | (NA) | (NA) | (NA) | (NA) | (NA) |
| | Montana Totals: | | | | | |
| | Total | 21.4 | 21.7 | 23.8 | 24.2 | 22.6 |
| | For Export | (D) | 0.4 | 0.3 | 0.3 | 0.4 |
| | For Export/Total | (D) | 1.8% | 1.3% | 1.2% | 1.8% |

(D) - data not disclosed to avoid identifying individual firms
(Z) - less than 50

* All "Totals" include employees of central administrative offices (CAO's) and auxiliaries (warehouses, garages, repair shops, etc.) serving operating manufacturing establishments.

** All "For Export" employment is limited to paid employees in manufacturing plants producing the export product. The number of employees related to export shipments was calculated for each establishment, aggregated by industry, and inflated to a level comparable to the plant value of exports reported in the official foreign trade statistics at port value.

NOTE: The export-related employment data shown do not include the jobs involved in the export of manufactured goods such as farm products, minerals, and various services sold to foreign buyers such as transportation, insurance, motion pictures, financial services, etc. Thus, jobs in the manufacturing sector that relate to the export of nonmanufactured goods are excluded from the estimates. In addition, all of the indirect exports being reported are domestically produced; that is, they exclude imports. The methodology used to exclude import shares as described in the text are based on the assumption that the import content for a product is the same for all consumers.

Data are based on a sample, and are not comparable with data in basic employment table.

SOURCE: U.S. Bureau of the Census, 1981 Annual Survey of Manufacturers; Origin of Exports of Manufactured Products and Annual Survey of Manufacturers, 1976; Origin of Exports of Manufacturing Establishments.

# CHAPTER IX

# TRANSPORTATION

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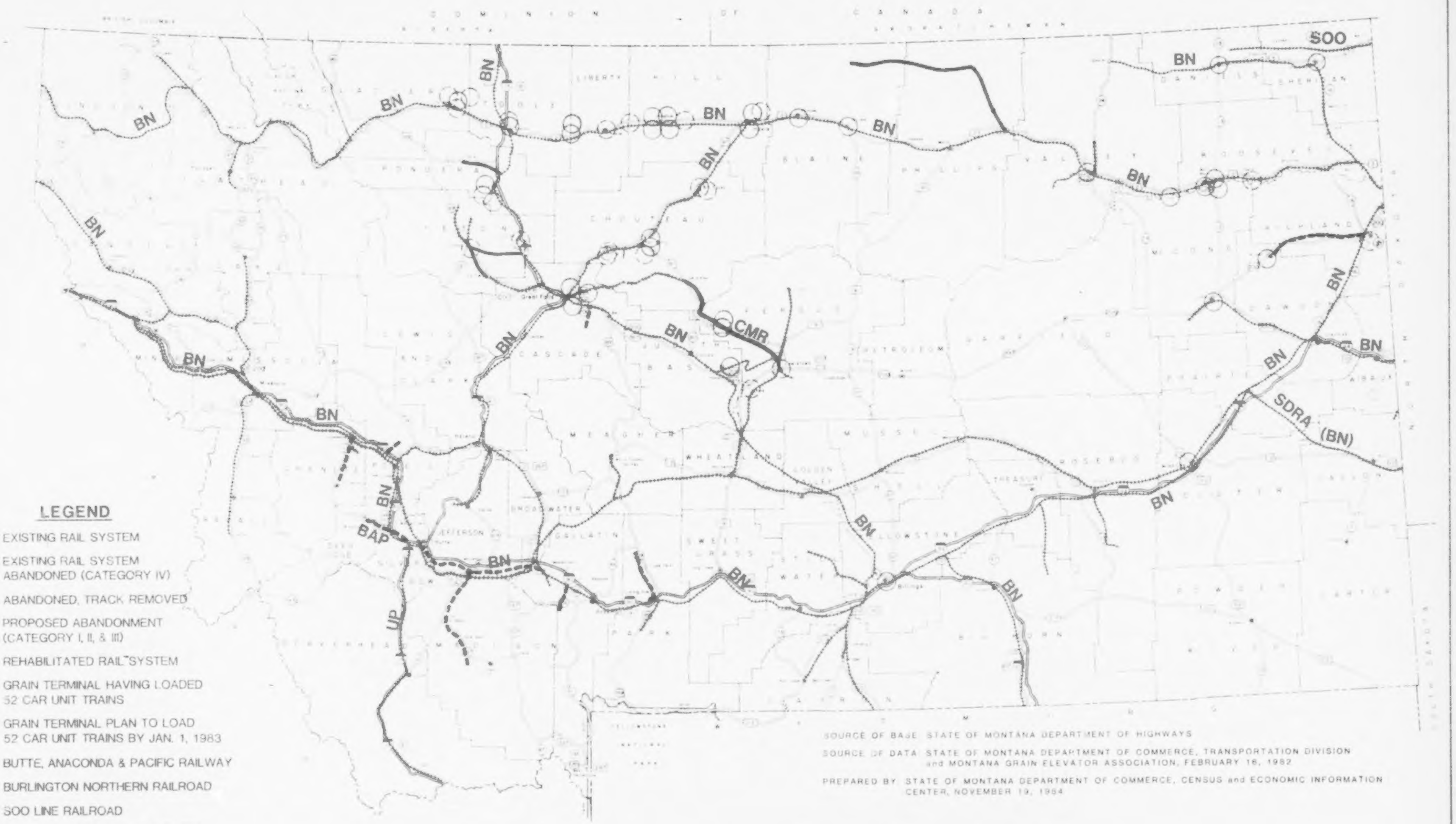
## TABLE IX - 1

## RAILROAD ROUTE MILES IN MONTANA

|  | 1972 | 1979 | 1982 | 1984 | Net Abandoned |
|---|---|---|---|---|---|
| Milwaukee | 1,168.0 | 1,066.6 | 78.6 | 0.0 | 1,168.0 |
| Soo Line | 56.9 | 56.9 | 56.9 | 56.9 | 0.0 |
| U.P. | 147.7 | 133.3 | 133.3 | 133.3 | 14.4 |
| BA&P | 45.9 | 31.9 | 31.9 | 31.9 | 14.0 |
| WSS&YP | 22.9 | 22.9 | 0.0 | 0.0 | 22.9 |
| B.N. | 4,311.5 | 3,385.4 | 3,414.4 | 3,178.8 | 1,132.7 |
| SDRA/BN | 0.0 | 0.0 | 0.0 | 78.6 | 0.0 |
| Totals: | 5,752.9 | 4,697.0 | 3,715.1 | 3,479.5 | 2,352.0 |

SOURCE: Transportation Division, Montana Dept. of Commerce, July 1984.


DOMINION OF CANADA
BRITISH COLUMBIA
ALBERTA
SASKATCHEWAN
SOO
BN
CMR
SDRA (BN)
BAP
UP
LIBERTY
HILL
BLAINE
PHILLIPS
VALLEY
DANIELS
SHERIDAN
ROOSEVELT
RICHLAND
MCCONE
DAWSON
PRAIRIE
WIBAUX
CUSTER
ROSEBUD
TREASURE
YELLOWSTONE
SWEET GRASS
WHEATLAND
GOLDEN VALLEY
PETROLEUM
GARFIELD
FERGUS
JUDITH BASIN
CASCADE
CHOUTEAU
PONDERA
TETON
TOOLE
GLACIER
FLATHEAD
LINCOLN
MISSOULA
LEWIS AND CLARK
GRANITE
JEFFERSON
BROADWATER
GALLATIN
MEAGHER
PARK
BIG HORN
POWDER RIVER
CARTER
YELLOWSTONE NATIONAL PARK
Billings
10 0 10 20 30 40
SCALE IN MILES

SOURCE OF BASE: STATE OF MONTANA DEPARTMENT OF HIGHWAYS

SOURCE OF DATA: STATE OF MONTANA DEPARTMENT OF COMMERCE, TRANSPORTATION DIVISION and MONTANA GRAIN ELEVATOR ASSOCIATION, FEBRUARY 16, 1982

PREPARED BY: STATE OF MONTANA DEPARTMENT OF COMMERCE, CENSUS and ECONOMIC INFORMATION CENTER, NOVEMBER 19, 1984

LEGEND

┈┈ EXISTING RAIL SYSTEM
━━ EXISTING RAIL SYSTEM ABANDONED (CATEGORY IV)
┈┈ ABANDONED, TRACK REMOVED
- - - PROPOSED ABANDONMENT (CATEGORY I, II, & III)
━━ REHABILITATED RAIL SYSTEM
○ GRAIN TERMINAL HAVING LOADED 52 CAR UNIT TRAINS
○ GRAIN TERMINAL PLAN TO LOAD 52 CAR UNIT TRAINS BY JAN. 1, 1983
BAP – BUTTE, ANACONDA & PACIFIC RAILWAY
BN – BURLINGTON NORTHERN RAILROAD
SOO – SOO LINE RAILROAD
SDRA – SOUTH DAKOTA RAIL AUTHORITY
UP – UNION PACIFIC RAILROAD
CMR – CENTRAL MONTANA RAIL
(BN) – OPERATING AGREEMENT

MONTANA RAIL SYSTEMS &
ABANDONMENTS WITH GRAIN TERMINALS

FIGURE IX-1

## TABLE IX - 2

## SELECTED COMMODITIES ORIGINATING & TERMINATING ON MAJOR MONTANA RAIL LINES*

(in tons)

| Commodity | 1980 |  |  |  | 1983 |  |  |  |
|---|---|---|---|---|---|---|---|---|
|  | Originating in Montana | Percent Originating | Terminating in Montana | Percent Terminating | Originating in Montana | Percent Originating | Terminating in Montana | Percent Terminating |
| Farm Products | 2,735,634 | 7.8 | 599,694 | 12.5 | 4,618,264 | 13.2 | 202,109 | 7.6 |
| Metallic Ores | 161 | (Z) | 468,780 | 9.8 | 118,242 | 0.3 | 260,931 | 9.8 |
| Coal | 27,471,094 | 78.7 | 1,054,761 | 22.1 | 26,027,484 | 74.3 | 358,315 | 13.5 |
| Crude Petroleum, Natural Gas & Natural Gasoline | 56,517 | 0.2 | 0 | 0 | 35,983 | 0.1 | 1,891 | 0.1 |
| Nonmetallic Minerals, except Fuels | 664,628 | 1.9 | 544,307 | 11.4 | 621,595 | 1.8 | 126,335 | 4.7 |
| Food & Kindred Products | 340,049 | 1.0 | 218,056 | 4.6 | 307,401 | 0.9 | 91,066 | 3.4 |
| Lumber & Wood Products | 1,812,145 | 5.2 | 673,171 | 14.1 | 1,444,156 | 4.1 | 511,562 | 19.2 |
| Pulp, Paper & Allied Products | 421,973 | 1.2 | 40,495 | 0.8 | 592,715 | 1.7 | 25,881 | 1.0 |
| Chemicals & Allied Products | 147,664 | 0.4 | 401,740 | 8.4 | 107,465 | 0.3 | 412,076 | 15.5 |
| Petroleum & Allied Products | 426,640 | 1.2 | 260,300 | 5.4 | 501,981 | 1.4 | 227,534 | 8.5 |
| Stone, Clay, Glass & Concrete | 416,076 | 1.2 | 82,889 | 1.7 | 306,920 | 0.9 | 150,764 | 5.7 |
| Primary Metal Products | 332,495 | 1.0 | 200,011 | 4.2 | 204,238 | 0.6 | 101,238 | 3.8 |
| Transportation Equipment | 3,029 | (Z) | 72,229 | 1.5 | 19,028 | 0.1 | 82,752 | 3.1 |
| Waste & Scrap | 82,266 | 0.2 | 21,285 | 0.4 | 100,017 | 0.3 | 15,423 | 0.6 |
| Other | 6,653 | (Z) | 143,471 | 3.0 | 27,991 | 0.1 | 94,695 | 3.6 |
| Total: | 34,917,024 | 100.0 | 4,781,119 | 100.0 | 35,033,480 | 100.0 | 2,662,572 | 100.0 |

* Including Burlington Northern, the Milwaukee, the Union Pacific, & the Soo Line.

(Z) - Less than 0.05 percent.

NOTE: Percentage figures may not total to 100% due to rounding.
SOURCE: R-1 reports for each railroad to the Montana Public Service Commission, years indicated.

# TABLE IX - 3

## FREIGHT CARRIED ON BURLINGTON NORTHERN RAILROAD DURING THE YEAR ORIGINATING IN MONTANA

(tons)

| ICC Code | Commodity | 1974 | Percent | 1975 | Percent | 1976 | Percent | 1977 | Percent | 1978 | Percent |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | Farm Products | 2,763,221 | 13.1 | 2,528,813 | 8.8 | 3,231,826 | 9.7 | 2,676,983 | 8.4 | 2,956,250 | 9.2 |
| 08 | Forest Products | 2,954 | (Z) | 2,553 | (Z) | 3,340 | (Z) | 2,090 | (Z) | 1,949 | (Z) |
| 09 | Fresh Fish & Other Marine Prod. | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10 | Metallic Ores | 4,127 | (Z) | 199,164 | 0.7 | 92,716 | 0.3 | 169,122 | 0.5 | 221 | (Z) |
| 11 | Coal | 13,483,991 | 64.0 | 21,331,227 | 74.2 | 24,728,535 | 74.5 | 24,158,524 | 75.8 | 24,290,177 | 75.4 |
| 13 | Crude Petroleum | 50,446 | 0.2 | 89,410 | 0.3 | 106,744 | 0.3 | 60,973 | 0.2 | 67,427 | 0.2 |
| 14 | Nonmetallic Minerals | 726,365 | 3.5 | 799,659 | 2.8 | 752,862 | 2.3 | 685,882 | 2.2 | 807,246 | 2.5 |
| 19 | Ordnance & Accessories | 2,414 | (Z) | 103 | (Z) | 65 | (Z) | 132 | (Z) | 119 | (Z) |
| 20 | Food & Kindred Products | 310,879 | 1.5 | 305,580 | 1.1 | 289,948 | .9 | 315,463 | 1.0 | 331,276 | 1.0 |
| 21 | Tobacco Products | -- | -- | 95 | (Z) | -- | -- | 307 | (Z) | - | -- |
| 22 | Textile Mill Products | 102 | (Z) | 106 | (Z) | 189 | (Z) | 142 | (Z) | 51 | (Z) |
| 24 | Lumber & Wood | 1,935,140 | 9.2 | 1,881,293 | 6.5 | 2,189,644 | 6.6 | 2,199,239 | 6.9 | 2,182,040 | 6.8 |
| 25 | Furniture & Fixtures | 507 | (Z) | 183 | (Z) | 139 | (Z) | 131 | (Z) | 232 | (Z) |
| 26 | Pulp Paper & Allied Products | 228,653 | 1.1 | 148,379 | 0.5 | 226,785 | 0.7 | 243,685 | 0.8 | 281,456 | 0.9 |
| 27 | Printed Matter | 22 | (Z) | 96 | (Z) | 47 | (Z) | 58 | (Z) | -- | -- |
| 28 | Chemicals & Allied Products | 25,612 | 0.1 | 19,204 | 0.1 | 34,072 | 0.1 | 35,622 | 0.1 | 99,578 | 0.3 |
| 29 | Petroleum & Coal Products | 517,805 | 2.5 | 532,858 | 1.9 | 571,377 | 1.7 | 459,425 | 1.4 | 411,987 | 1.3 |
| 30 | Rubber & Misc. Plastic | 472 | (Z) | 533 | (Z) | 1,011 | (Z) | 290 | (Z) | 35 | (Z) |
| 31 | Leather | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 32 | Stone, Clay, Glass & Concrete | 470,088 | 2.2 | 422,313 | 1.5 | 480,567 | 1.5 | 384,878 | 1.2 | 329,511 | 1.0 |
| 33 | Primary Metal Products | 404,566 | 1.9 | 361,949 | 1.3 | 377,223 | 1.1 | 365,388 | 1.2 | 356,052 | 1.1 |
| 34 | Fabr. Metal Products, excluding Ordinance Mach. | 1,614 | (Z) | 998 | (Z) | 1,446 | (Z) | 2,134 | (Z) | 920 | (Z) |
| 35 | Machinery, except Electrical | 2,762 | (Z) | 2,484 | (Z) | 2,478 | (Z) | 1,158 | (Z) | 933 | (Z) |
| 36 | Elec. Machinery, Equipment & Supplies | 818 | (Z) | 929 | (Z) | 746 | (Z) | 202 | (Z) | 95 | (Z) |
| 37 | Transportation Equipment | 4,793 | (Z) | 3,547 | (Z) | 1,625 | (Z) | 1,934 | (Z) | 775 | (Z) |
| 39 | Misc. Products of Manufacturing* | 1,162 | (Z) | 98 | (Z) | 66 | (Z) | 34 | (Z) | -- | -- |
| 40 | Waste & Scrap Materials | 63,274 | 0.3 | 57,583 | 0.2 | 41,986 | 0.1 | 49,542 | 0.2 | 56,375 | 0.2 |
| 41 | Misc. Freight Shipments | 2,975 | (Z) | 1,947 | (Z) | 3,185 | (Z) | 1,277 | (Z) | 1,438 | (Z) |
| 42 | Containers, Shipping, Returned Empty | 3,967 | (Z) | 2,697 | (Z) | 1,451 | (Z) | 2,931 | (Z) | 2,331 | (Z) |
| 44 | Freight Fwdr. Traffic | 20 | (Z) | 20 | (Z) | -- | -- | 195 | (Z) | 31 | (Z) |
| 45 | Shipper Assn. Traffic | 56 | (Z) | 178 | (Z) | 623 | (Z) | 328 | (Z) | 121 | (Z) |
| 46 | Misc. Mixed Shipments | 7,562 | (Z) | 12,368 | (Z) | 4,157 | (Z) | 1,757 | (Z) | 770 | (Z) |
| Grand Total C.L. Traffic | | 21,016,187 | 99.8 | 28,706,417 | 99.9 | 33,144,853 | 99.9 | 31,820,936 | 99.9 | 32,179,396 | 99.9 |
| Small Package Shipments | | 50,781 | 0.2 | 41,984 | 0.2 | 42,061 | 0.1 | 42,971 | 0.1 | 38,045 | 0.1 |
| Grant Total, CL & LCL Traffic** | | 21,066,968 | 100.0 | 28,748,401 | 100.0 | 33,186,914 | 100.0 | 31,863,907 | 100.0 | 32,217,441 | 100.0 |

* Including instruments, photo & optical, watches & clocks.

** May not equal 100% due to rounding.

## TABLE IX - 3
(cont.)

| ICC Code | Commodity | 1979 | Percent | 1980 | Percent | 1981 | Percent | 1982 | Percent | 1983 | Percent |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | Farm Products | 2,815,776 | 7.6 | 3,155,917 | 7.3 | (NA) | (NA) | 3,883,856 | 10.2 | 4,697,806 | 11.9 |
| 08 | Forest Products | 1,800 | (Z) | 1,933 | (Z) | (NA) | (NA) | 5,271 | (Z) | 425 | (Z) |
| 09 | Fresh Fish & Other Marine Prod. | -- | (Z) | 239 | (Z) | (NA) | (NA) | -- | (Z) | -- | (Z) |
| 10 | Metallic Ores | -- | (Z) | 496,089 | 1.2 | (NA) | (NA) | 431,714 | 1.1 | 388,148 | 1.0 |
| 11 | Coal | 29,461,017 | 79.2 | 30,353,850 | 70.2 | (NA) | (NA) | 26,458,167 | 69.7 | 26,427,926 | 66.6 |
| 13 | Crude Petroleum | 60,002 | 0.2 | 25,655 | 0.1 | (NA) | (NA) | 79,475 | 0.2 | 38,382 | 0.1 |
| 14 | Nonmetallic Minerals | 785,824 | 2.1 | 804,953 | 1.9 | (NA) | (NA) | 656,277 | 1.7 | 839,654 | 2.1 |
| 19 | Ordnance & Accessories | -- | (Z) | 54 | -- | (NA) | (NA) | 101 | (Z) | 835 | (Z) |
| 20 | Food & Kindred Products | 353,695 | 1.0 | 548,938 | 1.3 | (NA) | (NA) | 468,470 | 1.2 | 408,519 | 1.0 |
| 21 | Tobacco Products | -- | (Z) | 930 | (Z) | (NA) | (NA) | 1,048 | (Z) | 479 | (Z) |
| 22 | Textile Mill Products | 124 | (Z) | 354 | (Z) | (NA) | (NA) | 699 | (Z) | 721 | (Z) |
| 24 | Lumber & Wood | 2,121,187 | 5.7 | 2,556,104 | 5.9 | (NA) | (NA) | 1,885,357 | 5.0 | 1,966,033 | 5.0 |
| 25 | Furniture & Fixtures | 160 | (Z) | 1,811 | (Z) | (NA) | (NA) | 756 | (Z) | 752 | (Z) |
| 26 | Pulp Paper & Allied Products | 267,589 | 0.7 | 475,138 | 1.1 | (NA) | (NA) | 481,259 | 1.3 | 708,588 | 1.8 |
| 27 | Printed Matter | 1,058 | (Z) | 541 | (Z) | (NA) | (NA) | 357 | (Z) | 276 | (Z) |
| 28 | Chemicals & Allied Products | 120,824 | 0.3 | 1,077,356 | 2.5 | (NA) | (NA) | 1,105,336 | 2.9 | 1,362,080 | 3.4 |
| 29 | Petroleum & Coal Products | 455,668 | 1.2 | 861,917 | 2.0 | (NA) | (NA) | 859,662 | 2.3 | 858,843 | 2.2 |
| 30 | Rubber & Misc. Plastic | 215 | (Z) | 1,607 | (Z) | (NA) | (NA) | 717 | (Z) | 115 | (Z) |
| 31 | Leather | -- | -- | 69 | (Z) | (NA) | (NA) | -- | -- | 80 | (Z) |
| 32 | Stone, Clay, Glass & Concrete | 302,613 | 0.8 | 1,925,305 | 4.5 | (NA) | (NA) | 989,554 | 2.6 | 1,243,619 | 3.1 |
| 33 | Primary Metal Products | 366,870 | 1.0 | 600,068 | 1.4 | (NA) | (NA) | 96,666 | 1.0 | 321,551 | 0.8 |
| 34 | Fabr. Metal Products, excluding |  |  |  |  |  |  | 16,484 | (Z) | 4,417 | (Z) |
|  | Ordinance Mach. & Trans. | 1,058 | (Z) | 7,952 | (Z) | (NA) | (NA) | 12,878 | (Z) | 10,236 | (Z) |
| 35 | Machinery, except Electrical | 526 | (Z) | 17,632 | (Z) | (NA) | (NA) | 4,092 | (Z) | 2,962 | (Z) |
| 36 | Elec. Machinery, Equipment & Supplies | 189 | (Z) | 3,328 | (Z) | (NA) | (NA) | 4,092 | (Z) | 2,962 | (Z) |
| 37 | Transportation Equipment | 2,979 | (Z) | 13,830 | 0.2 | (NA) | (NA) | 98,238 | 0.3 | 138,882 | 0.4 |
| 39 | Misc. Products of Manufacturing* | 57 | (Z) | 1,536 | (Z) | (NA) | (NA) | 80 | (Z) | -- | -- |
| 40 | Waste & Scrap Materials | 65,195 | 0.2 | 136,515 | 0.3 | (NA) | (NA) | 69,676 | 0.2 | 158,065 | 0.4 |
| 41 | Misc. Freight Shipments | 306 | (Z) | 1,181 | (Z) | (NA) | (NA) | 4,041 | (Z) | 5,940 | (Z) |
| 42 | Containers, Shipping, Returned Empty | 1,264 | (Z) | 971 | (Z) | (NA) | (NA) | 1,824 | (Z) | 1,167 | (Z) |
| 44 | Freight Fwdr. Traffic | 15 | (Z) | 1,966 | (Z) | (NA) | (NA) | 394 | (Z) | 96 | (Z) |
| 45 | Shipper Assn. Traffic | 147 | (Z) | 19,836 | 0.1 | (NA) | (NA) | 16,550 | (Z) | 6,888 | (Z) |
| 46 | Misc. Mixed Shipments | 2,638 | (Z) | 66,267 | 0.2 | (NA) | (NA) | 58,007 | 0.2 | 64,980 | 0.2 |
| Grand Total C.L. Traffic |  | 37,188,796 | 99.9 | 43,255,842 | 100.0 | (NA) | (NA) | 37,987,026 | 100.0 | 39,658,365 | 100.0 |
| Small Package Shipments |  | 29,117 | 0.1 | 180 | (Z) | (NA) | (NA) | 42 | (Z) | 16 | (Z) |
| Grand Total, CL & LCL Traffic** |  | 37,217,913 | 100.0 | 43,256,022 | 100.0 | (NA) | (NA) | 37,987,068 | 100.0 | 39,658,481 | (Z) |

* Including instruments, photo & optical, watches & clocks.

** May not equal 100.0% due to rounding.

SOURCE: R-1 reports for each railroad to the Montana Public Service Commission, years indicated.

## TABLE IX - 4

## PASSENGERS ON/OFF -- MONTANA STATIONS, NORTHERN ROUTE, EMPIRE BUILDER
(based on fiscal year 10/1 - 9/30 except as noted)

| Station | 1977* | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984** |
|---|---|---|---|---|---|---|---|---|
| Wolf Point (WPT): | | | | | | | | |
| On | 3,174 | 2,376 | 2,483 | 3,185 | 3,133 | 3,614 | 6,337 | 3,448 |
| Off | 3,347 | 2,356 | 2,443 | 3,041 | 2,956 | 3,342 | 6,131 | 3,319 |
| Glasgow (GGW): | | | | | | | | |
| On | 3,811 | 2,906 | 3,424 | 3,768 | 3,414 | 3,376 | 3,469 | 2,512 |
| Off | 3,956 | 2,782 | 2,887 | 3,041 | 2,898 | 3,207 | 3,459 | 2,755 |
| Malta (MAL): | | | | | | | | |
| On | 1,562 | 1,146 | 995 | 1,570 | 1,691 | 1,761 | 1,943 | 1,331 |
| Off | 1,539 | 1,178 | 1,197 | 1,675 | 1,949 | 1,920 | 2,083 | 1,291 |
| Havre (HAV): | | | | | | | | |
| On | 8,$%9 | 6,116 | 6,106 | 7,864 | 8,337 | 9,430 | 9,940 | 6,658 |
| Off | 8,111 | 6,040 | 6,114 | 7,995 | 8,635 | 10,112 | 10,223 | 6,383 |
| Shelby (SLY): | | | | | | | | |
| On | 3,040 | 2,253 | 2,317 | 3,752 | 3,843 | 4,403 | 4,723 | 3,334 |
| Off | 3,245 | 2,464 | 2,382 | 3,431 | 3,835 | 4,538 | 4,824 | 3,476 |
| Cut Bank (CUT): | | | | | | | | |
| On | 1,%79 | 1,414 | 1,543 | 1,350 | 1,594 | 1,836 | 1,956 | 1,211 |
| Off | 1,414 | 1,261 | 1,585 | 1,217 | 1,431 | 1,680 | 1,741 | 1,052 |
| Browning (BRO): | | | | | | | | |
| On | 730 | 354 | 140 | 544 | 595 | 835 | 871 | 768 |
| Off | 708 | 360 | 56 | 619 | 550 | 825 | 1,211 | 857 |
| Glacier Park (GPK): | | | | | | | | |
| On | 3,036 | 1,726 | 2,676 | 3,177 | 3,458 | 3,443 | 4,125 | 567 |
| Off | 3,254 | 2,333 | 2,902 | 4,223 | 4,395 | 4,730 | 4,745 | 589 |
| Belton (BTN): | | | | | | | | |
| On | 935 | 1,227 | 1,189 | 1,923 | 2,009 | 2,231 | 2,181 | 259 |
| Off | 1,080 | 1,061 | 946 | 1,746 | 1,900 | 1,910 | 1,975 | 287 |
| Whitefish (WFH): | | | | | | | | |
| On | 11,019 | 9,795 | 10,782 | 15,193 | 16,421 | 17,575 | 17,540 | 11,965 |
| Off | 11,618 | 9,938 | 10,777 | 15,218 | 16,095 | 17,115 | 17,036 | 12,035 |
| Libby (LIB): | | | | | | | | |
| On | 1,612 | 1,426 | 1,543 | 2,024 | 1,990 | 2,240 | 2,115 | 1,400 |
| Off | 1,664 | 1,420 | 1,489 | 1,954 | 1,915 | 2,107 | 2,150 | 1,376 |
| Total: | | | | | | | | |
| On | 38,957 | 30,739 | 33,198 | 44,350 | 46,485 | 50,749 | 55,200 | 33,508 |
| Off | 39,876 | 31,193 | 32,778 | 44,155 | 46,559 | 51,536 | 55,583 | 33,420 |

* Calendar year.

** As of May.

SOURCE: National Railroad Passenger Corp. (Amtrak), Passenger Accounting System, years indicated.

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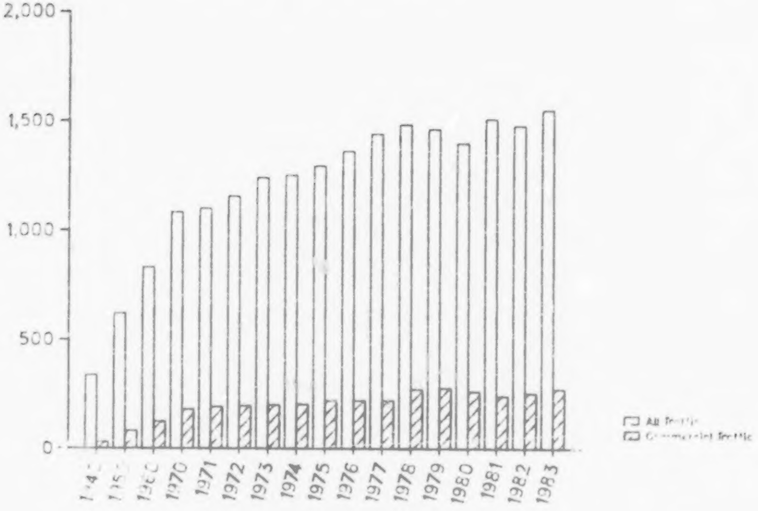
# MONTANA TRANSPORTATION

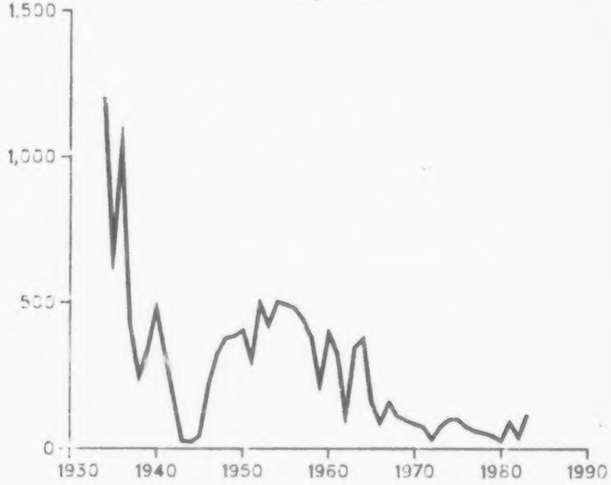
## FIGURE IX-2

Daily Highway Traffic



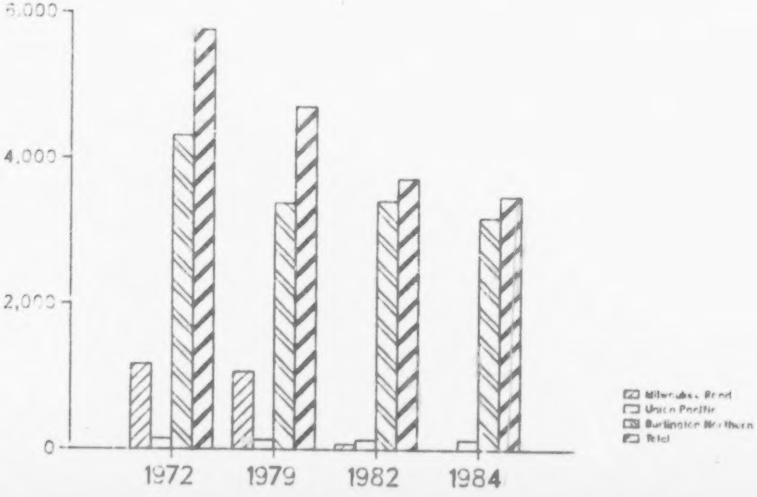
## FIGURE IX-3

Rural Primary Federal Aid
Miles of Improved Highway
by Years



## FIGURE IX-4

Railroad Route Miles



*Source of Highway Graphs: Planning and Research and Planning and Statistics Bureaus, Montana Department of Highways.*

*Source of Railroad Graph: Intermode Commodities Bureau, Transportation Division, Montana Department of Commerce.*

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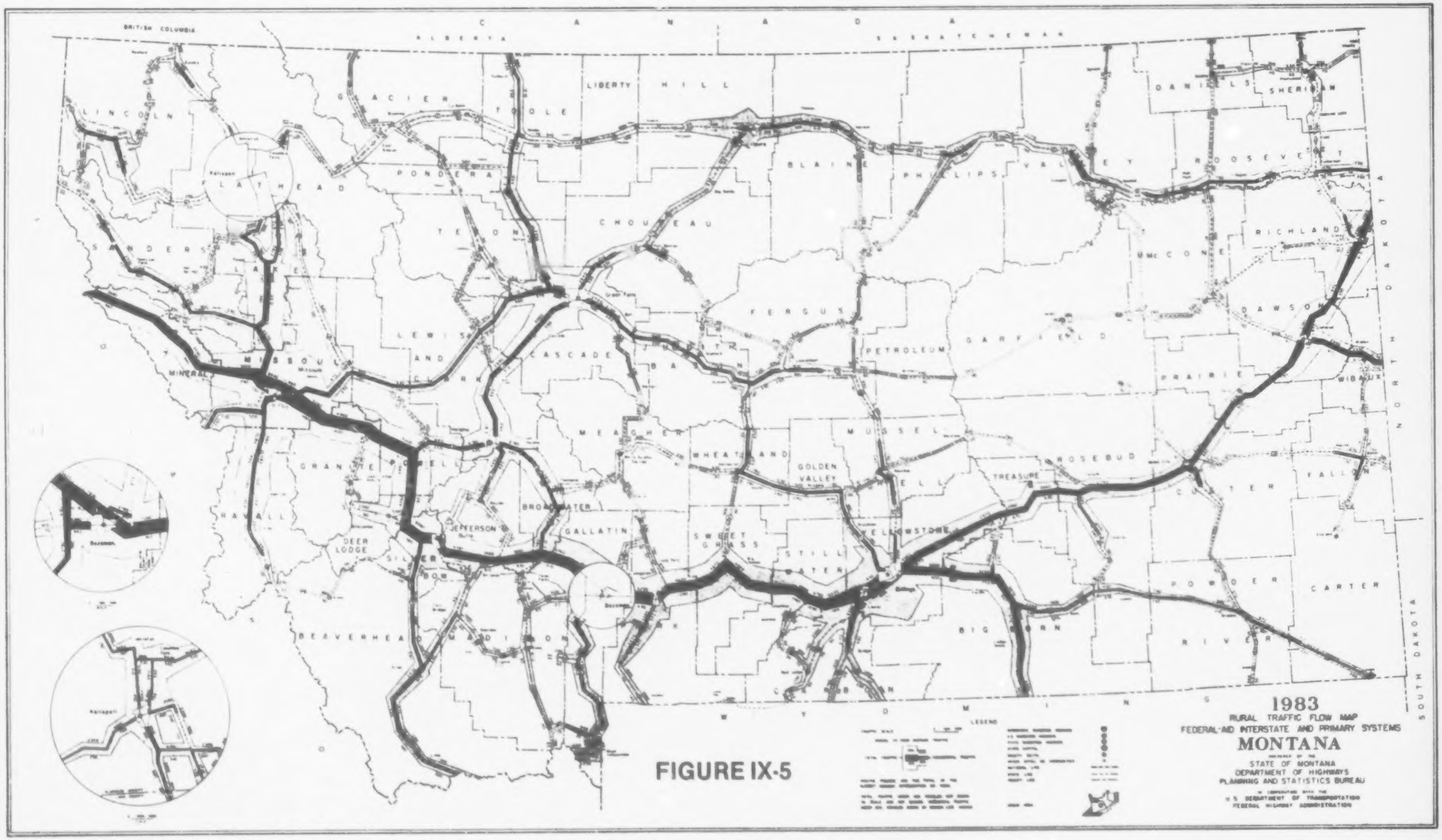

C A N A D A
BRITISH COLUMBIA
ALBERTA
SASKATCHEWAN
LINCOLN
FLATHEAD
GLACIER
TOOLE
LIBERTY
HILL
BLAINE
PHILLIPS
VALLEY
DANIELS
SHERIDAN
ROOSEVELT
PONDERA
TETON
CHOUTEAU
SANDERS
LAKE
McCONE
RICHLAND
DAWSON
LEWIS AND CLARK
CASCADE
FERGUS
PETROLEUM
GARFIELD
MINERAL
MISSOULA
JUDITH BASIN
PRAIRIE
WIBAUX
MEAGHER
WHEATLAND
MUSSELSHELL
GOLDEN VALLEY
TREASURE
ROSEBUD
GRANITE
POWELL
CUSTER
FALLON
RAVALLI
BROADWATER
JEFFERSON
GALLATIN
SWEET GRASS
STILLWATER
YELLOWSTONE
DEER LODGE
SILVER BOW
POWDER RIVER
CARTER
BEAVERHEAD
MADISON
PARK
CARBON
BIG HORN
W Y O M I N G
NORTH DAKOTA
SOUTH DAKOTA
Kalispell
Bozeman
Billings
LEGEND
1983
RURAL TRAFFIC FLOW MAP
FEDERAL-AID INTERSTATE AND PRIMARY SYSTEMS
MONTANA
STATE OF MONTANA
DEPARTMENT OF HIGHWAYS
PLANNING AND STATISTICS BUREAU
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

FIGURE IX-5

# TABLE IX - 5

## HIGHWAY ROUTE LENGTHS IN MONTANA: FEDERAL AID PRIMARY & INTERSTATE SYSTEM
(net constructed length)

| | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Located Outside Federal Reservations: | | | | | | | | | | | | |
| Municipal | 179.8 | 182.2 | 181.8 | 177.8 | 159.5 | 159.5 | 169.6 | 170.0 | 169.2 | 168.5 | 169.8 | 172.5 |
| County | 4859.9 | 5000.2 | 5047.8 | 5045.4 | 4911.9 | 4911.7 | 5161.2 | 5174.8 | 5174.5 | 5177.4 | 5192.2 | 5199.9 |
| State Forest | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 | 42.4 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 | 51.4 |
| Subtotal: | 5082.1 | 5224.8 | 5272.1 | 5265.6 | 5113.9 | 5113.6 | 5384.9 | 5398.8 | 5397.8 | 5400.0 | 5416.1 | 5423.8 |
| Less Urban Extension | 161.8 | 164.5 | 167.6 | 161.0 | 121.1 | 121.1 | 126.9 | 128.4 | 123.8 | 122.6 | 126.8 | 129.9 |
| Total: | 4920.3 | 5060.4 | 5104.4 | 5104.6 | 4992.8 | 4992.5 | 5258.0 | 5270.4 | 5274.0 | 5277.4 | 5289.3 | 5293.9 |
| Located Inside Federal Reservations: | | | | | | | | | | | | |
| Nat. Forest | 463.9 | 500.9 | 500.7 | 500.9 | 487.4 | 485.9 | 584.3 | 580.3 | 584.5 | 591.4 | 591.9 | 591.8 |
| Ind. Reser. | 588.0 | 584.6 | 586.5 | 586.2 | 574.6 | 574.6 | 614.0 | 607.5 | 607.5 | 600.1 | 600.3 | 600.0 |
| Nat. Parks | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 23.9 | 20.3 |
| Game Refuge | 32.6 | 32.6 | 31.9 | 31.9 | 32.7 | 32.7 | 38.1 | 36.1 | 27.6 | 27.6 | 27.6 | 27.6 |
| Total: | 1108.3 | 1142.0 | 1142.6 | 1142.9 | 1118.6 | 1117.1 | 1260.3 | 1247.8 | 1243.5 | 1243.0 | 1243.6 | 1239.8 |
| Grand Total: | 6190.4 | 6366.9 | 6415.0 | 6408.5 | 6232.4 | 6230.7 | 6645.3 | 6646.6 | 6641.3 | 6643.8 | 6659.7 | 6663.6 |

SOURCE: Montana Department of Highways, Planning & Statistics Bureau, Montana Federal Aid Road Log, years indicated.

## TABLE IX - 6

## EXISTING PUBLIC ROAD & STREET MILEAGE IN MONTAHA BY JURISDICTION

| | 1980 | 1981 | 1982 |
|---|---|---|---|
| Rural: | | | |
| State | 6,205 | 6,631 | 7,263 |
| Local | 53,615 | 53,521 | 53,375 |
| Federal | 9,498 | 9,058 | 8,497 |
| Total Rural: | 69,351 | 69,210 | 69,135 |
| Urban: | | | |
| State | 282 | 109 | 154 |
| Local | 2,075 | 2,383 | 2,140 |
| Federal | 2 | 1 | 3 |
| Total Urban: | 2,359 | 2,493 | 2,297 |
| Total Mileage: | 71,710 | 71,703 | 71,432 |

SOURCE: Federal Highway Administration, Highway Statistics, years indicated.

## TABLE IX - 7

## TRAFFIC & MILEAGE IN MONTANA: PERCENTAGES OF CHANGE (1981 - 1982 & 1982 - 1983)

| | Percent Change, 1981-1982 | | | Percent Change, 1982-1983 | | |
|---|---|---|---|---|---|---|
| Highway System | System Mileage | Average Daily Traffic | Daily VM of Traffic | System Mileage | Average Daily Traffic | Daily VM of Traffic |
| Interstate - Rural | -0.1 | -1.5 | -1.2 | -0.3 | +2.7 | +2.5 |
| Interstate - Urban | +1.4 | +0.5 | +1.9 | +8.1 | +4.5 | +12.9 |
| Primary - Rural | -0.1 | -2.7 | -2.3 | -0.1 | +5.5 | +5.5 |
| Primary - Urban | +9.8 | -4.5 | +4.9 | +4.2 | +2.5 | +6.8 |
| Subtotal: I & P | -0.1 | -1.9 | -2.0 | -0.0 | +4.8 | +4.8 |
| Urban | +6.6 | -8.3 | -2.2 | +1.3 | +5.0 | +6.3 |
| Secondary - Rural | +0.0 | -4.0 | -3.6 | +0.2 | +4.2 | +5.6 |
| Total, All Systems: | +0.2 | -1.8 | -1.2 | +0.1 | +5.0 | +5.0 |

SOURCE: Montana Dept. of Highways, Planning & Statistics Bureau, Traffic by Sections, August 1984.

## TABLE IX - 8

## COMPARISON OF SYSTEM MILEAGES, AVERAGE DAILY TRAFFIC, & DAILY VEHICLE-MILES OF TRAFFIC IN MONTANA

| | 1982 | | | 1983 | | |
|---|---|---|---|---|---|---|
| Highway System | System Mileage | Average Daily Traffic | Daily VM of Traffic | System Mileage | Average Daily Traffic | Daily VM of Traffic |
| Interstate - Rural | 1,150.4 | 3,280 | 3,780,211 | 1,147.2 | 3,370 | 3,872,669 |
| Interstate - Urban | 43.0 | 7,400 | 318,694 | 46.5 | 7,730 | 359,638 |
| Primary - Rural | 5,374.1 | 1,090 | 5,902,001 | 5,369.3 | 1,150 | 6,227,089 |
| Primary - Urban | 96.1 | 10,360 | 995,940 | 100.1 | 10,620 | 1,063.601 |
| Subtotal: I&P Rural | 6,524.5 | 1,484 | 9,682,212 | 6,516.5 | 1,550 | 10,099,758 |
| Subtotal: I&P Urban | 139.1 | 9,451 | 1,314,634 | 146.6 | 9,708 | 1,423,239 |
| Secondary | 4,707.2 | 240 | 1,141,584 | 4,715.6 | 250 | 1,205,959 |
| Urban | 346.7 | 4,980 | 1,728,610 | 351.1 | 5,230 | 1,837.163 |
| Subtotal: Rural | 11,231.7 | 4,610 | 10,823,796 | 11,232.1 | 1,007 | 11,305,717 |
| Subtotal: Urban | 485.8 | 6,264 | 3,043,244 | 297.7 | 6,551 | 3,260,402 |
| Total, All Systems: | 11,717.5 | 1,183 | 13,867,040 | 11,729.8 | 1,242 | 14,566,119 |

SOURCE: Montana Dept. of Highways, Planning & Statistics Bureau, Traffic by Sections, August 1984.

## TABLE IX - 9

## FEDERAL AID PRIMARY SYSTEM
## DEFICIENT MILEAGE IN MONTANA*

| Year | Mileage | Rural | Urban | Total | Deficient |
|---|---|---|---|---|---|
| 1965 | 4,712.4 | 1,761.2 | 37.8 | 1,799.0 | 38.2 |
| 1966 | 4,927.7 | 1,708.7 | 53.4 | 1,762.1 | 35.8 |
| 1967 | 4,949.7 | 1,722.2 | 52.4 | 1,774.6 | 35.9 |
| 1968 | 4,951.2 | 1,915.1 | 54.3 | 1,969.4 | 39.8 |
| 1969 | 5,010.5 | 1,894.6 | 50.2 | 1,944.8 | 38.8 |
| 1970 | 5,010.5 | 1,927.2 | 48.5 | 1,975.7 | 39.4 |
| 1971 | 5,179.8 | 1,992.4 | 48.6 | 2,041.0 | 39.4 |
| 1972 | 5,211.6 | 2,034.7 | 47.0 | 2,081.7 | 39.9 |
| 1973 | 5,216.1 | 2,068.6 | 55.0 | 2,123.6 | 40.7 |
| 1974 | 5,039.6 | 1,911.3 | 34.5 | 1,945.8 | 38.6 |
| 1975 | 5,039.6 | 1,898.6 | 33.7 | 1,932.0 | 38.3 |
| 1976 | 5,452.3 | 2,009.8 | 32.4 | 2,042.4 | 37.5 |
| 1977 | 5,453.5 | 2,024.3 | 31.4 | 2,055.7 | 37.7 |
| 1978 | 5,452.0 | 2,080.1 | 30.7 | 2,110.8 | 38.7 |
| 1979 | 5,451.4 | 2,082.5 | 29.8 | 2,112.3 | 38.7 |
| 1980 | 5,466.1 | 2,095.2 | 29.0 | 2,124.2 | 38.8 |
| 1981 | 5,471.9 | 2,129.3 | 28.7 | 2,158.0 | 39.4 |

NOTE: The Department of Highways' sufficiency ratings indicate how well a particular section of road compares to the latest design standards. Roads are evaluated on the basis of structural adequacy, safety, and hourly service volume. A more complete explanation of the sufficiency ratings standards is contained in the department's Montana Primary Highway Sufficiency Ratings.

SOURCE: Montana Dept. of Highways, Planning & Research Bureau, Montana Primary Highway Sufficiency Ratings, years indicated.

## TABLE IX - 10

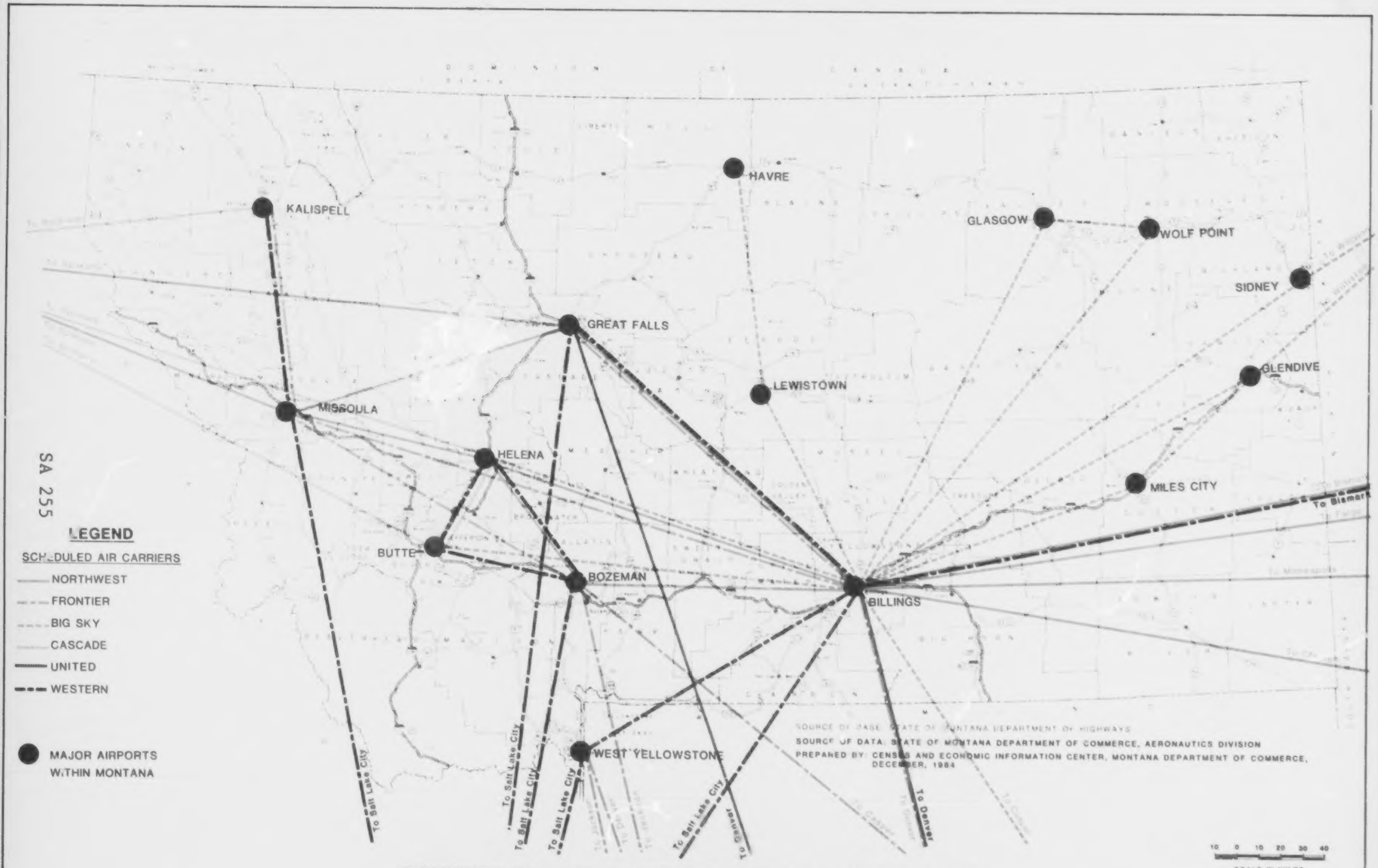
## MILES OF RURAL HIGHWAY IN MONTANA BY ADJUSTED SUFFICIENCY RATINGS*
(in 10% increments)

| Percent Sufficient | 1966 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 - 10% | | | | | | | | | | | | | |
| Miles | 3.4 | 5.4 | 12.4 | 12.1 | 12.3 | 15.2 | 15.2 | 2.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| Percent | 0.1 | 0.1 | 0.3 | 0.2 | 0.2 | 0.3 | 0.3 | | | | | | |
| 11 - 20% | | | | | | | | | | | | | |
| Miles | 20.5 | 25.4 | 34.7 | 18.3 | 21.8 | 14.0 | 11.4 | 14.2 | 22.8 | 23.4 | 47.6 | 26.8 | 31.6 |
| Percent | 0.4 | 0.5 | 0.7 | 0.4 | 0.4 | 0.3 | 0.2 | 0.3 | 0.4 | 0.4 | 0.9 | 0.5 | 0.6 |
| 21 - 39% | | | | | | | | | | | | | |
| Miles | 38.5 | 121.5 | 85.6 | 78.4 | 83.7 | 66.7 | 71.8 | 76.9 | 100.0 | 104.8 | 76.5 | 116.2 | 120.3 |
| Percent | 0.8 | 2.5 | 1.7 | 1.6 | 1.7 | 1.4 | 1.5 | 1.5 | 1.9 | 2.0 | 1.5 | 2.2 | 2.3 |
| 31 - 40% | | | | | | | | | | | | | |
| Miles | 121.6 | 388.3 | 396.5 | 241.1 | 291.9 | 262.3 | 260.2 | 293.5 | 303.2 | 331.2 | 339.7 | 329.9 | 305.5 |
| Percent | 2.6 | 8.0 | 8.0 | 4.8 | 5.9 | 5.4 | 5.4 | 5.6 | 5.8 | 6.3 | 6.5 | 6.2 | 5.8 |
| 41 - 50% | | | | | | | | | | | | | |
| Miles | 800.3 | 911.7 | 907.0 | 777.4 | 948.7 | 791.8 | 813.1 | 853.0 | 874.4 | 797.1 | 804.8 | 870.2 | 869.6 |
| Percent | 17.0 | 19.0 | 18.3 | 15.6 | 19.0 | 16.3 | 16.7 | 16.2 | 16.6 | 15.1 | 15.3 | 16.5 | 16.5 |
| 51 - 60% | | | | | | | | | | | | | |
| Miles | 1338.7 | 1240.3 | 1176.0 | 1318.5 | 1301.7 | 1153.3 | 1135.0 | 1260.4 | 1139.6 | 1312.3 | 1257.9 | 1324.0 | 1333.0 |
| Percent | 28.5 | 26.0 | 23.8 | 26.4 | 26.1 | 23.7 | 23.3 | 23.9 | 21.6 | 24.9 | 23.9 | 25.1 | 25.2 |
| 61 - 70% | | | | | | | | | | | | | |
| Miles | 1721.9 | 636.7 | 734.7 | 933.5 | 1075.2 | 962.8 | 904.3 | 860.5 | 1010.3 | 1060.4 | 1054.3 | 1014.2 | 951.5 |
| Percent | 15.3 | 13.3 | 14.8 | 18.7 | 21.6 | 19.8 | 18.6 | 16.3 | 19.2 | 20.1 | 20.0 | 19.2 | 18.0 |
| 71 - 80% | | | | | | | | | | | | | |
| Miles | 596.3 | 714.1 | 774.5 | 773.5 | 659.7 | 837.9 | 874.9 | 1003.0 | 874.9 | 852.3 | 883.8 | 879.3 | 948.2 |
| Percent | 12.7 | 15.0 | 15.6 | 15.5 | 13.2 | 17.2 | 18.0 | 19.0 | 16.6 | 16.2 | 16.8 | 16.7 | 17.9 |
| 81 - 90% | | | | | | | | | | | | | |
| Miles | 643.6 | 486.6 | 590.4 | 515.2 | 377.4 | 552.7 | 563.4 | 605.8 | 672.0 | 620.3 | 595.6 | 522.0 | 546.4 |
| Percent | 13.7 | 10.2 | 12.0 | 10.3 | 7.6 | 11.4 | 11.6 | 11.5 | 12.8 | 11.8 | 11.3 | 9.9 | 10.3 |
| 91 - 100% | | | | | | | | | | | | | |
| Miles | 419.4 | 257.2 | 239.6 | 319.7 | 215.7 | 204.9 | 211.8 | 295.9 | 268.2 | 163.9 | 205.7 | 198.1 | 178.2 |
| Percent | 8.9 | 5.4 | 4.8 | 6.4 | 4.3 | 4.2 | 4.4 | 5.6 | 5.1 | 3.1 | 3.9 | 3.8 | 3.4 |
| Total% | | | | | | | | | | | | | |
| Miles | 4,704.4 | 4,787.2 | 4,951.4 | 4,988.1 | 4,988.6 | 4,862.0 | 4,861.7 | 5,265.7 | 5,266.4 | 5,266.4 | 5,266.4 | 5,281.3 | 5,284.8 |
| Percent | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

NOTE: The Department of Highways' sufficiency ratings indicate how well a particular stretch of road compares to the latest design standards. Roads are evaluated on the basis of structural adequacy, safety, and hourly service volume. A more complete explanation of the sufficiency ratings standards is contained in the department's Montana Primary Highway Sufficiency Ratings.

SOURCE: Montana Dept. of Highways, Planning & Research Bureau, Montana Primary Highway Sufficiency Ratings.

SA 255



HAVRE
KALISPELL
GLASGOW
WOLF POINT
SIDNEY
GREAT FALLS
GLENDIVE
LEWISTOWN
MISSOULA
HELENA
MILES CITY
BUTTE
BOZEMAN
BILLINGS
WEST YELLOWSTONE
To Salt Lake City
To Salt Lake City
To Salt Lake City
To Salt Lake City
To Salt Lake City
To Denver
To Denver
To Bismarck
To Minneapolis
To Williston
LEGEND
SCHEDULED AIR CARRIERS
NORTHWEST
FRONTIER
BIG SKY
CASCADE
UNITED
WESTERN
MAJOR AIRPORTS WITHIN MONTANA
10 0 10 20 30 40
SCALE IN MILES

SOURCE OF BASE: STATE OF MONTANA DEPARTMENT OF HIGHWAYS
SOURCE OF DATA: STATE OF MONTANA DEPARTMENT OF COMMERCE, AERONAUTICS DIVISION
PREPARED BY: CENSUS AND ECONOMIC INFORMATION CENTER, MONTANA DEPARTMENT OF COMMERCE, DECEMBER, 1984

SCHEDULED AIR CARRIER SERVICE IN MONTANA

FIGURE IX-6

## TABLE IX - 11

## GAS UTILITY INDUSTRY MILES OF PIPELINE & MAIN BY STATE, 1960 - 1982*

| Year | Montana | Idaho | Wyoming | United States |
|---|---|---|---|---|
| 1960 | 5,120 | 1,490 | 3,400 | 630,950 |
| 1965 | 5,970 | 2,770 | 4,610 | 767,520 |
| 1970 | 6,324 | 3,226 | 5,920 | 913,267 |
| 1975 | 7,435 | 3,785 | 6,396 | 979,263 |
| 1980** | 8,822 | 4,177 | 8,634 | 1,051,774 |
| 1981** | 8,538 | 4,435 | 9,151 | 1,069,864 |
| 1982 | 8,699 | 4,464 | 9,650 | 1,083,162 |

* Includes field, gathering, underground storage, transmission & distribution mains, but excludes service pipe. Data not adjusted to common diameter equivalent. Mileage shows as of end of year.

** revised

SOURCE: American Gas Association, Gas Facts, 1982.

## TABLE IX - 12

## GAS UTILITY INDUSTRY MILES OF PIPELINE & MAIN BY TYPE & STATE, 1982*

| Type | Montana | Idaho | Wyoming | United States |
|---|---|---|---|---|
| Total | 8,699 | 4,464 | 9,650 | 1,083,162 |
| Field & Gathering | 2,380 | 0 | 3,167 | 90,501 |
| Transmission Pipeline** | 3,089 | 1,525 | 3,556 | 271,732 |
| Distribution Main | 3,230 | 2,939 | 2,927 | 720,929 |

* Excludes 417,592 miles of service pipe. Data not adjusted to common diameter equivalent. Mileage shown as of end of year.

** Includes 5,515 miles of underground storage pipe.

SOURCE: American Gas Association, Gas Facts, 1982.

## TABLE IX - 13

## GAS UTILITY INDUSTRY MILES OF PIPELINE & MAIN INSTALLED DURING 1982 BY TYPE, STATE, & TYPE OF PIPE*

| Type | Montana | Idaho | Wyoming | United States |
|---|---|---|---|---|
| Total** | 164 | 33 | 693 | 17,807 |
| Field & Gathering: | | | | |
| Steel | 104 | 0 | 464 | 3,189 |
| Transmission Pipeline: | | | | |
| Steel*** | 2 | 0 | 149 | 2,888 |
| Distribution Main: | | | | |
| Total | 58 | 33 | 80 | 11,730 |
| Steel | 5 | 1 | 41 | 4,081 |
| Plastic**** | 53 | 32 | 39 | 7,514 |
| Other | 0 | 0 | 0 | 135 |

* Excludes service pipe. Data not adjusted to common diameter equivalent.

** Does not include 66 miles of plastic & other pipe classified as field & gathering & transmission pipe.

*** Includes 75 miles of underground storage pipe.

**** Includes fiberglass.

SOURCE: American Gas Association, Gas Facts, 1982.

# CHAPTER X

# COMMUNICATIONS

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# TABLE X - 1

## NEWSPAPERS IN MONTANA

| Year | Morning Papers | Evening Papers | Total Daily Papers | Sunday (weekend) Papers |
|---|---|---|---|---|
| 1960 | 4 | 14 | 18 | 10 |
| 1970 | 4 | 10 | 14 | 9 |
| 1971 | (NA) | (NA) | (NA) | (NA) |
| 1972 | 4 | 9 | 13 | 8 |
| 1973 | 4 | 9 | 13 | 8 |
| 1974 | 4 | 7 | 11 | 7 |
| 1975 | (NA) | (NA) | (NA) | (NA) |
| 1976 | 4 | 7 | 11 | 7 |
| 1977 | 4 | 7 | 11 | 7 |
| 1978 | 4 | 7 | 11 | 7 |
| 1979 | 4 | 7 | 11 | 8 |
| 1980 | 5 | 6 | 11 | 8 |
| 1981 | 5 | 6 | 11 | 8 |
| 1982 | 5 | 6 | 11 | 8 |
| 1983 | 5 | 6 | 11 | 9 |

SOURCE: Editor & Publisher Co., Inc., Editor & Publisher International Yearbook, years indicated.

TABLE X - 2

NEWSPAPER CIRCULATION IN MONTANA

| Year | Morning Circ. | Evening Circ. | Total Daily Circ. | Sunday (weekend) Circ. |
|---|---|---|---|---|
| 1960 | 100,060 | 71,828 | 171,888 | 153,864 |
| 1970 | 133,421 | 55,620 | 189,041 | 184,414 |
| 1971 | (NA) | (NA) | (NA) | (NA) |
| 1972 | 139,002 | 54,826 | 193,828 | 189,290 |
| 1973 | 140,154 | 56,263 | 196,417 | 191,728 |
| 1974 | 148,919 | 43,954 | 192,873 | 186,825 |
| 1975 | (NA) | (NA) | (NA) | (NA) |
| 1976 | 146,100 | 44,546 | 190,646 | 185,703 |
| 1977 | 149,612 | 45,433 | 195,045 | 190,553 |
| 1978 | 149,353 | 46,862 | 196,215 | 192,994 |
| 1979 | 148,636 | 47,659 | 196,295 | 197,102 |
| 1980 | 151,907 | 45,038 | 196,945 | 198,209 |
| 1981 | 153,782 | 46,938 | 200,720 | 201,946 |
| 1982 | 152,764 | 47,746 | 200,510 | 201,905 |
| 1983 | 152,205 | 49,362 | 201,531 | 206,282 |

SOURCE: Editor & Publisher Co., Inc., Editor & Publisher International Yearbook, years indicated.

## TABLE X - 3

## TELEPHONE DEVELOPMENT FOR MONTANA & UNITED STATES

| | Number of Phones | | Residential Phones | | Business Phones | | Phones/100 Population | | Percent Households w/ Phone Service | |
|---|---|---|---|---|---|---|---|---|---|---|
| Yr. | Montana | U.S. | Montana | U.S. | Montana | U.S. | Montana | U.S. | Montana | U.S. |
| 1960 | 251,900 | 74,341,100 | 182,000 | 53,562,100 | 69,900 | 20,779,000 | 37.3 | 41.5 | (NA) | (NA) |
| 1970 | 357,000 | 120,154,800 | 259,800 | 86,850,000 | 97,200 | 33,304,800 | 51.4 | 58.6 | 89 | 92 |
| 1971 | 376,100 | 125,140,800 | 273,300 | 90,695,900 | 102,800 | 34,444,900 | 52.8 | 60.4 | 89 | 93 |
| 1972 | 398,800 | 131,602,500 | 289,200 | 95,613,000 | 109,600 | 35,989,500 | 55.2 | 62.9 | 89 | 92 |
| 1973 | 423,904 | 138,288,389 | 306,807 | 100,853,505 | 117,097 | 37,434,884 | 58.6 | 65.6 | 90 | 94 |
| 1974 | 450,240 | 143,971,452 | 326,058 | 105,222,939 | 124,182 | 38,748,513 | 60.9 | 67.8 | 90 | 94 |
| 1975 | 478,227 | 149,007,803 | 347,094 | 109,510,153 | 131,133 | 39,497,650 | 63.5 | 69.6 | 91 | 94 |
| 1976 | 507,712 | 155,173,288 | 372,073 | 114,490,877 | 135,639 | 40,682,411 | 67.1 | 72.0 | 93 | 95 |
| 1977 | 544,655 | 162,072,146 | 400,146 | 119,752,597 | 144,509 | 42,319,549 | 71.3 | 74.6 | 95 | 96 |
| 1978 | 575,509 | 169,026,948 | 422,148 | 124,742,739 | 153,361 | 44,284,209 | 72.4 | 77.2 | 93 | 97 |
| 1979 | 604,030 | 175,535,112 | 440,220 | 129,583,132 | 163,810 | 45,951,980 | 76.4 | 79.4 | 95 | 98 |
| 1980 | 623,211 | 180,424,023 | 455,912 | 133,210,275 | 167,299 | 47,213,748 | 78.4 | 79.0 | 96 | 96 |
| 1981 | 630,733 | 181,891,596 | 461,943 | 134,111,520 | 168,790 | 47,780,076 | 78.4 | 78.9 | 95 | 96 |

SOURCE: Federal Communications Commission, Statistics of Communications Common Carriers, years indicated.

## TABLE X - 4

## BROADCASTING STATIONS IN MONTANA

| Year | AM | FM | TV |
|---|---|---|---|
| 1960 | 35 | 0 | 9 |
| 1970 | (NA) | (NA) | (NA) |
| 1971 | 45 | 8 | 12 |
| 1972 | 46 | 8 | 12 |
| 1973 | (NA) | (NA) | (NA) |
| 1974 | (NA) | (NA) | (NA) |
| 1975 | (NA) | (NA) | (NA) |
| 1976 | 45 | 24 | 10 |
| 1977 | (NA) | (NA) | (NA) |
| 1978 | 43 | 29 | 12 |
| 1979 | (NA) | (NA) | (NA) |
| 1980 | 49 | 37 | 12 |
| 1981 | 46 | 43 | 13 |
| 1982 | (NA) | (NA) | (NA) |
| 1983 | 49 | 42 | 13 |
| 1984 | 48 | 47 | 14 |

NA - not available

SOURCE: Montana Broadcasters' Association, Broadcasters' Association Directory, years indicated.

# CHAPTER XI

# CONSTRUCTION

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## TABLE XI - 1

## MONTHLY SUMMARY OF BUILDING PERMITS FOR MAJOR CITIES IN MONTANA*

| | New Construction | | | Remodel & Additions | | | Total Construction | | |
|---|---|---|---|---|---|---|---|---|---|
| Date | Res.** | Comm. | Indus. | Res.** | Comm. | Indus. | Res.** | Comm. | Indus. |
| 07/83 | 249 | 21 | 1 | 154 | 57 | 0 | 403 | 78 | 1 |
| 08/83 | 211 | 33 | 1 | 117 | 48 | 1 | 328 | 81 | 2 |
| 09/83 | 186 | 16 | 3 | 157 | 80 | 0 | 343 | 96 | 3 |
| 10/83 | 206 | 29 | 4 | 110 | 83 | 3 | 316 | 112 | 7 |
| 11/83 | 148 | 23 | 2 | 107 | 57 | 0 | 255 | 80 | 2 |
| 12/83 | 52 | 7 | 0 | 35 | 51 | 1 | 87 | 58 | 1 |
| 01/84 | 83 | 9 | 0 | 58 | 53 | 1 | 141 | 62 | 1 |
| 02/84 | 103 | 15 | 0 | 58 | 69 | 0 | 161 | 84 | 0 |
| 03/84 | 186 | 15 | 0 | 81 | 56 | 1 | 267 | 71 | 1 |
| 04/84 | 241 | 20 | 0 | 105 | 69 | 7 | 346 | 89 | 7 |
| 05/84 | 214 | 20 | 0 | 130 | 58 | 1 | 344 | 78 | 1 |
| 06/84 | 197 | 23 | 8 | 122 | 43 | 5 | 319 | 66 | 13 |

* Includes Billings, Bozeman, Butte, Great Falls, Helena, Kalispell, and Missoula.

** Includes residential, garage, and carport.

SOURCE: National Association of Home Builders of the United States, Montana Builder, dates indicated.

## TABLE XI - 2

## HOUSING PERMITS, WESTERN STATES

|  | Annualized 6-month Average |  |  | Change, 1984/1983 |  |  |  |
|---|---|---|---|---|---|---|---|
| State | 1983 | 1984 | Rank | Numerical | Rank | Percent | Rank |
| Alaska | 11,280 | 7,957 | 9 | -3,323 | 13 | -29.5 | 13 |
| Arizona | 67,328 | 86,346 | 2 | 19,018 | 2 | 28.2 | 2 |
| California | 154,558 | 227,568 | 1 | 73,010 | 1 | 47.2 | 1 |
| Colorado | 46,534 | 47,642 | 3 | 1,108 | 7 | 2.4 | 9 |
| Hawaii | 4,156 | 4,992 | 12 | 836 | 8 | 20.1 | 6 |
| Idaho | 5,294 | 5,810 | 10 | 516 | 9 | 9.7 | 8 |
| Montana | 5,728 | 5,282 | 11 | -446 | 10 | -7.8 | 10 |
| Nevada | 20,102 | 17,524 | 5 | -2,578 | 12 | -12.8 | 11 |
| New Mexico | 11,492 | 14,090 | 7 | 2,598 | 6 | 22.6 | 4 |
| Oregon | 11,062 | 13,736 | 8 | 2,674 | 5 | 24.2 | 3 |
| Utah | 13,250 | 16,148 | 6 | 2,898 | 4 | 21.9 | 5 |
| Washington | 29,102 | 32,426 | 4 | 3,324 | 3 | 11.4 | 7 |
| Wyoming | 3,542 | 3,068 | 13 | -474 | 11 | -13.4 | 12 |
| West | 383,428 | 482,590 |  | 99,162 |  | 25.9 |  |
| United States, excluding West | 1,167,172 | 1,259,810 |  | 92,638 |  | 7.9 |  |
| United States | 1,550,600 | 1,742,400 |  | 191,800 |  | 12.4 |  |

SOURCE: First Interstate Bank, Economic Performance, 13 Western States, 84:2, October 1984.

## TABLE XI - 3

## NONRESIDENTIAL CONSTRUCTION, WESTERN STATES
(dollar amounts in millions)

| | Annualized 6-month Average | | | Change, 1984/1983 | | | |
|---|---|---|---|---|---|---|---|
| State | 1983 | 1984 | Rank | Numerical | Rank | Percent | Rank |
| Alaska | $ 353.8 | $ 377.2 | 5 | $ 23.4 | 7 | 6.6 | 8 |
| Arizona | 462.0 | 829.5 | 3 | 367.5 | 2 | 79.5 | 2 |
| California | 3,759.9 | 4,782.7 | 1 | 1,022.8 | 1 | 27.2 | 5 |
| Colorado | 797.5 | 854.0 | 2 | 56.5 | 4 | 7.1 | 7 |
| Hawaii | 101.7 | 144.6 | 10 | 42.9 | 5 | 42.2 | 4 |
| Idaho | 75.7 | 117.5 | 12 | 41.8 | 6 | 55.2 | 3 |
| Montana | 46.0 | 136.4 | 11 | 90.4 | 3 | 196.5 | 1 |
| Nevada | 202.0 | 146.0 | 9 | -56.0 | 12 | -27.7 | 12 |
| New Mexico | 350.4 | 264.8 | 6 | -85.6 | 13 | -24.4 | 11 |
| Oregon | 147.5 | 167.2 | 8 | 19.7 | 8 | 13.4 | 6 |
| Utah | 242.6 | 256.8 | 7 | 14.2 | 10 | 5.9 | 9 |
| Washington | 613.4 | 629.1 | 4 | 15.7 | 9 | 2.6 | 10 |
| Wyoming | 92.3 | 39.6 | 13 | -52.7 | 11 | -57.1 | 13 |
| West | 7,244.8 | 8,745.4 | | 1,500.6 | | 20.7 | |
| United States, excluding West | 22,500.2 | 26,015.6 | | 3,515.4 | | 15.6 | |
| United States | 29,745.0 | 34,761.0 | | 5,016.0 | | 16.9 | |

SOURCE: First Interstate Bank, Economic Performance, 13 Western States, 84:2, October 1984.

# CHAPTER XII

# HEALTH

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## TABLE XII - 1

## PERSONAL HEALTH CARE EXPENDITURES: 1978

(million dollars, except as indicated)

| | Total* | Hospital Care | Physicians' Services | Nursing Home Care | Per Capita Expenditures (dollars) |
|---|---|---|---|---|---|
| U.S. | $165,518 | $74,849 | $35,801 | $15,209 | $745 |
| Montana | 506 | 200 | 115 | 46 | 645 |
| Idaho | 505 | 179 | 123 | 53 | 554 |
| Wyoming | 237 | 97 | 50 | 13 | 551 |

* includes other objects of expenditures not shown separately.

SOURCE: U.S. Health Care Financing Administration, Health Care Financing Review, December 1982.

## TABLE XII - 2

## SELECTED HEALTH FACILITIES & PERSONNEL IN MONTANA

| Item | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Facilities: | | | | | | |
| Hospitals | 60 | 60 | (NA) | 61 | 60 | 60 |
| Hospital Beds | 3,367 | 3,425 | (NA) | 3,429 | 3,289 | 3,381 |
| Long-Term Care | 92 | 93 | (NA) | 94 | 93 | 90 |
| Long-Term Care Beds | 5,782 | 5,891 | (NA) | 5,912 | 5,837 | 5,836 |
| Personnel: | | | | | | |
| Physicians | 1,189 | 1,121 | 1,050 | 1,147 | 1,054 | 1,201 |
| Dentists | (NA) | (NA) | (NA) | 454 | 482 | 525 |
| RN's | 7,240 | 7,337 | 7,684 | 8,125 | 8,685 | 8,292 |
| LPN's | 2,953 | 2,866 | 2,853 | 3,211 | 3,323 | 3,205 |

SOURCES: Montana Dept. of Health & Environmental Sciences, Montana Health Data Book and Licensed Physicians in Montana, Montana Dept. of Health & Environmental Sciences, Dental and Health Education Bureau; Board of Nursing.

# CHAPTER XIII

# EDUCATION

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## TABLE XIII - 1

## MONTANA PUBLIC SCHOOL ENROLLMENT: ELEMENTARY SCHOOL
(fall enrollment)

| Year | Pre-K | K | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Ungraded | Special Education | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1969 | (NA) | 3,232 | 14,638 | 14,788 | 14,554 | 14,633 | 14,695 | 14,359 | 7,803 | 7,516 | 458 | 1,151 | 107,820 |
| 1970 | 98 | 3,235 | 13,812 | 14,115 | 14,750 | 14,676 | 14,628 | 14,701 | 8,031 | 7,755 | 726 | 1,259 | 107,336 |
| 1971 | 332 | 3,344 | 13,266 | 13,527 | 14,195 | 14,785 | 14,651 | 14,611 | 7,859 | 7,729 | 202 | 1,210 | 105,711 |
| 1972 | 14 | 3,288 | 12,446 | 12,753 | 13,409 | 14,181 | 14,926 | 14,754 | 7,711 | 7,655 | 137 | 1,388 | 102,662 |
| 1973 | 89 | 4,073 | 12,134 | 12,006 | 12,738 | 13,415 | 14,238 | 14,967 | 7,520 | 7,572 | 85 | 1,608 | 100,445 |
| 1974 | 54 | 6,894 | 12,112 | 11,778 | 11,933 | 12,756 | 13,511 | 14,323 | 8,071 | 7,967 | 169 | 1,396 | 100,964 |
| 1975 | 101 | 9,864 | 12,469 | 11,611 | 11,639 | 11,873 | 12,644 | 13,512 | 7,849 | 8,113 | 29 | 1,366 | 101,076 |
| 1976 | 85 | 10,904 | 12,939 | 11,951 | 11,489 | 11,683 | 11,926 | 12,764 | 7,544 | 7,891 | 7 | 1,115 | 100,298 |
| 1977 | 117 | 10,114 | 13,499 | 12,510 | 11,991 | 11,643 | 11,740 | 12,154 | 7,253 | 7,775 | 15 | 1,238 | 100,049 |
| 1978 | 213 | 10,070 | 12,181 | 12,825 | 12,367 | 11,901 | 11,533 | 11,715 | 7,037 | 7,261 | 32 | 1,367 | 98,502 |
| 1979 | 160 | 9,951 | 11,754 | 11,615 | 12,619 | 12,238 | 11,840 | 11,437 | 6,945 | 7,138 | 3 | (NA) | (NA) |
| 1980 | 121 | 10,640 | 11,607 | 11,320 | 11,436 | 12,656 | 12,331 | 11,921 | 6,971 | 7,088 | 1 | (NA) | (NA) |
| 1981 | 133 | 10,930 | 12,029 | 11,122 | 11,170 | 11,335 | 12,532 | 12,193 | 7,174 | 6,823 | 0 | 1,242 | 96,683 |
| 1982 | 135 | 11,332 | 12,340 | 11,510 | 11,066 | 10,955 | 11,336 | 12,480 | 8,236 | 8,019 | 52 | 1,301 | 98,792 |
| 1983 | 108 | 11,887 | 12,865 | 11,872 | 11,442 | 11,037 | 11,083 | 11,473 | 8,636 | 8,348 | 65 | 1,397 | 100,213 |

SOURCE: Montana Office of Public Instruction, Montana Public School Enrollment Data, years indicated.

## TABLE XIII - 2

## MONTANA PUBLIC SCHOOL ENROLLMENT: JUNIOR HIGH SCHOOL
(fall enrollment)

| Year | 7 | 8 | 9 | Ungraded | Special Education | Total |
|---|---|---|---|---|---|---|
| 1969 | 6,748 | 6,526 | 6,822 | 1 | 172 | 20,269 |
| 1970 | 6,650 | 6,839 | 7,009 | 20 | 163 | 20,681 |
| 1971 | 6,917 | 6,780 | 6,863 | 0 | 189 | 20,749 |
| 1972 | 7,175 | 7,157 | 7,449 | 29 | 245 | 22,055 |
| 1973 | 7,352 | 7,437 | 7,665 | 13 | 260 | 22,727 |
| 1974 | 7,017 | 6,980 | 7,166 | 7 | 266 | 21,436 |
| 1975 | 6,547 | 6,863 | 6,684 | 39 | 198 | 20,331 |
| 1976 | 6,096 | 6,405 | 6,775 | 9 | 187 | 19,472 |
| 1977 | 5,620 | 5,882 | 6,165 | 0 | 292 | 17,959 |
| 1978 | 5,207 | 5,495 | 5,612 | 1 | 258 | 16,573 |
| 1979 | 4,914 | 4,953 | 5,328 | 0 | 11 | 15,206 |
| 1980 | 4,533 | 4,805 | 4,775 | 0 | 33 | 14,147 |
| 1981 | 4,787 | 4,552 | 5,635 | 0 | 213 | 14,187 |
| 1982 | 4,047 | 3,827 | 3,880 | 0 | 203 | 11,957 |
| 1983 | 3,963 | 3,837 | 3,989 | 0 | 258 | 12,044 |

SOURCE: Montana Office of Public Instruction, Montana Public School Enrollment Data, years indicated.

## TABLE XIII - 3

### MONTANA PUBLIC SCHOOL ENROLLMENT: HIGH SCHOOL
(fall enrollment)

| Year | 9 | 10 | 11 | 12 | Ungraded | Special Education | Post Grad. | Total | Grads |
|---|---|---|---|---|---|---|---|---|---|
| 1969 | 7,233 | 13,546 | 12,806 | 11,892 | 6 | 195 | 1,090 | 46,768 | (NA) |
| 1970 | 7,282 | 13,819 | 13,018 | 12,205 | 39 | 250 | 2,082 | 48,695 | 11,520 |
| 1971 | 7,425 | 14,105 | 13,183 | 12,325 | 13 | 238 | 8 | 47,297 | 10,550 |
| 1972 | 7,240 | 14,452 | 13,284 | 12,296 | 31 | 324 | 6 | 47,633 | 10,462 |
| 1973 | 7,923 | 14,530 | 13,697 | 12,192 | 100 | 429 | 2 | 48,873 | 10,532 |
| 1974 | 8,010 | 14,813 | 13,649 | 12,730 | 160 | 395 | 1 | 49,758 | 12,135 |
| 1975 | 8,212 | 14,814 | 13,981 | 12,804 | 95 | 474 | 1 | 50,381 | 12,293 |
| 1976 | 8,266 | 14,710 | 14,068 | 13,077 | 176 | 480 | 5 | 50,782 | 12,136 |
| 1977 | 8,219 | 14,813 | 13,931 | 13,010 | 179 | 570 | 2 | 50,724 | 12,328 |
| 1978 | 7,969 | 14,001 | 13,796 | 12,795 | 175 | 515 | 2 | 49,253 | 12,184 |
| 1979 | 7,534 | 13,348 | 13,186 | 12,993 | 54 | 26 | 0 | 47,141 | 12,068 |
| 1980 | 7,276 | 12,510 | 12,520 | 12,326 | 0 | 106 | 0 | 44,738 | 12,135 |
| 1981 | 6,986 | 11,693 | 11,761 | 11,728 | 0 | 397 | 0 | 42,565 | 11,634 |
| 1982 | 7,429 | 11,336 | 11,131 | 11,231 | 0 | 459 | 0 | 41,586 | 11,162 |
| 1983 | 7,933 | 11,108 | 10,987 | 10,889 | 0 | 472 | 0 | 41,389 | 10,689 |

SOURCE: Montana Office of Public Instruction, Montana Public School Enrollment Data, years indicated.

## TABLE XIII - 4

## MONTANA YEARS OF SCHOOL COMPLETED, PERSONS 18+ AND 25+: 1970 AND 1980

(data based on sample)

| Item | 1970 | 1980 |
|---|---|---|
| Persons 18+ Yrs: | | |
| Total | 440,583 | 554,887 |
| % Completing 11 Yrs or Less | 38.8 | 24.6 |
| % Completing 12 Yrs or More | 61.2 | 75.4 |
| % Completing 16 Yrs or More | 10.1 | 15.2 |
| Persons 25+ Yrs: | | |
| Total | 364,508 | 450,862 |
| % Completing Less than 8 Yrs | 8.9 | (NA) |
| % Completing 11 Yrs or Less | 40.8 | 25.6 |
| % Completing 12 Yrs or More | 59.2 | 74.4 |
| % Completing 16 Yrs or More | 11.0 | 17.5 |
| Median School Years Completed: | 12.3 | 12.6 |

SOURCE: U.S. Bureau of the Census, Census of Population: 1970 & 1980, Computer Tapes.

## TABLE XIII - 5

## MONTANA SCHOOL ENROLLMENT, YEARS OF SCHOOL COMPLETED, & LABOR FORCE STATUS PERSONS 16 - 19 YRS: 1980

| Group | 1980 |
|---|---|
| Total | 60,644 |
| Persons in Armed Forces | 574 |
| Civilian Persons: | |
| Enrolled, as % of Persons 16 - 19 Yrs | 71.9 |
| Not Enrolled, High School Graduates: | |
| Employed | 6,602 |
| Not Employed | 1,425 |
| Not in Labor Force | 1,929 |
| Not Enrolled, Not High School Graduates: | |
| Employed | 2,661 |
| Not Employed | 1,157 |
| Not in Labor Force | 2,690 |

SOURCE: U.S. Bureau of the Census, Census of Population: 1980, Computer Tape.

## TABLE XIII - 6

## OFFICIAL ENROLLMENT ESTIMATES
## MONTANA UNIVERSITY SYSTEM:
## FY 1985-86 & 1986-87

| Unit | Official Head Count Estimate | FYFTE Students | Restricted FYFTE Students | Net Budgetary FYFTE |
|---|---|---|---|---|
| Fiscal Year 1985-86: | | | | |
| University of Montana | 9,450 | 8,683 | 91 | 8,592 |
| Montana State University | 11,350 | 10,777 | 33 | 10,744 |
| Montana Tech | 2,482 | 2,268 | 0 | 2,268 |
| Eastern Montana College | 4,675 | 3,836 | 38 | 3,798 |
| Northern Montana College | 1,950 | 1,884 | 0 | 1,884 |
| Western Montana College | 975 | 909 | 0 | 909 |
| Total | 30,882 | 28,357 | 162 | 28,194 |
| Fiscal Year 1986-87: | | | | |
| University of Montana | 9,400 | 8,637 | 91 | 8,546 |
| Montana State University | 11,225 | 10,658 | 33 | 10,625 |
| Montana Tech | 2,473 | 2,260 | 0 | 2,260 |
| Eastern Montana College | 4,800 | 3,938 | 38 | 3,900 |
| Northern Montana College | 2,000 | 1,932 | 0 | 1,932 |
| Western Montana College | 1,000 | 933 | 0 | 933 |
| Total | 30,898 | 28,358 | 162 | 28,196 |

FYFTE - Fiscal Year Full-Time Equivalent

SOURCE: The Board of Regents, Montana University System, June 13, 1984.

TABLE XIII - 7

## TOTAL ENROLLMENT IN HIGHER EDUCATION INSTITUTIONS IN MONTANA
(head counts)

| Item | Montana University System | Independent Colleges | Community Colleges | Total |
|---|---|---|---|---|
| Fall Enrollment:* | | | | |
| 1982 | 29,371 | 3,026 | 3,533 | 35,930 |
| 1983 | 30,348 | 3,204 | 3,769 | 37,321 |
| 1984** | 29,289 | 2,023 | 3,584 | 35,763 |
| 1982-83 Change: | | | | |
| Number | +977 | +178 | +236 | +1,391 |
| Percent | +3.3 | +5.9 | +6.7 | +3.9 |
| 1983-84 Change: | | | | |
| Number** | -1,059 | -1,181 | -185 | -1,558 |
| Percent** | -3.5 | -36.9 | -4.9 | -4.2 |

[*] These figures exclude students enrolled in non-credit, community service courses. There are additional students enrolled in the tribally-controlled community colleges.

[**] These figures do not include enrollment in the College of Great Falls, which was unavailable at the date of publication.

SOURCE: Montana Office of the Commissioner of Higher Education, Enrollment in Higher Education Institutions in the State of Montana, Fall 1983, 1984.

## TABLE XIII - 8

## COMPARATIVE MONTANA INSTITUTIONAL ENROLLMENTS: FALL 1982 & FALL 1983
(head counts)

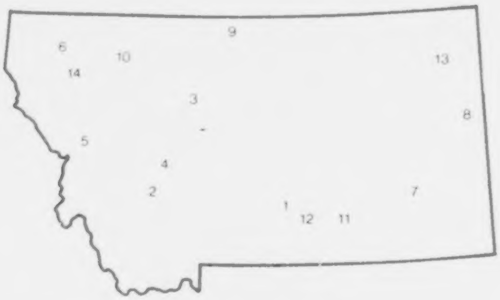
| | | Fall Enrollment | | | 1982-83 Change | | 1983-84 Change | |
|---|---|---|---|---|---|---|---|---|
| Institution | Location | 1982 | 1983 | 1984 | Number | Percent | Number | Percent |
| Montana University System: | | | | | | | | |
| University of Montana | Missoula | 9,101 | 9,371 | 9,213 | +270 | +3.0 | -150 | -1.7 |
| Montana State University | Bozeman | 11,233 | 11,447 | 11,035 | +214 | +1.9 | -412 | -3.6 |
| Montana Tech | Butte | 2,189 | 2,306 | 2,128 | +117 | +5.3 | -178 | -7.7 |
| Eastern Montana College | Billings | 4,177 | 4,424 | 4,208 | +247 | +5.9 | -216 | -4.9 |
| Western Montana College | Dillon | 984 | 941 | 894 | -43 | -4.4 | -47 | -5.0 |
| Northern Montana College | Havre | 1,687 | 1,859 | 1,811 | +172 | +10.2 | -48 | -2.6 |
| Community Colleges:* | | | | | | | | |
| Miles Community College | Miles City | 1,035 | 1,146 | 867 | +111 | +10.7 | -279 | -24.3 |
| Dawson Community College | Glendive | 690 | 749 | 761 | +59 | +8.6 | +12 | +1.6 |
| Flathead Valley Comm. College | Kalispell | 1,808 | 1,874 | 1,956 | +66 | +3.7 | +82 | +4.4 |
| Independent Colleges: | | | | | | | | |
| Carroll College | Helena | 1,330 | 1,533 | 1,520 | +203 | +15.3 | -13 | -0.8 |
| College of Great Falls | Great Falls | 1,272 | 1,192 | (NA) | -80 | -6.3 | (NA) | (NA) |
| Rocky Mountain College | Billings | 388 | 479 | 503 | +91 | +23.5 | +24 | +5.0 |
| Big Sky Bible College | Lewistown | 36 | 0 | 0 | -36 | -100.0 | 0 | 0 |

* These figures exclude students enrolled in non-credit community service courses and continuing education courses. Additional students are enrolled at the tribally-controlled community colleges which are not currently participating in the survey.

SOURCE: Office of the Commissioner of Higher Education, Enrollment in Higher Education Institutions: Fall 1983 and unpublished data.

## Table XIII-9

## *Location & Enrollment of Montana's Post-Secondary Vocational Technical Education Sites (FTE's)**



| Institution | Actual 1983-84 | Projected 1984-85 | Projected 1985-86 | Projected 1986-87 |
|---|---|---|---|---|
| Administered by the Office of Public Instruction: | | | | |
| 1. Billings Vo-Tech Center | 485 | 521 | 530 | 530 |
| 2. Butte Vo-Tech Center | 347 | 390 | 430 | 430 |
| 3. Great Falls Vo-Tech Center | 449 | 484 | 525 | 525 |
| 4. Helena Vo-Tech Center | 663 | 700 | 700 | 700 |
| 5. Missoula Vo-Tech Center | 667 | 600 | 620 | 620 |
| Administered by the Board of Regents: | | | | |
| 6. Flathead Valley Comm. College, Kalispell | 802 | 827 | 930 | 1,000 |
| 7. Miles Comm. College, Miles City | 621 | 540 | 596 | 628 |
| 8. Dawson Comm. College, Glendive | 390 | 400 | 410 | 420 |
| 9. Northern Montana College, Havre | (NA) | (NA) | (NA) | (NA) |
| Administered Under Tribal Councils: | | | | |
| 10. Blackfeet Comm. College, Browning | 178 | 190 | 190 | (NA) |
| 11. Dull Knife Comm. College, Lame Deer | 207 | 215 | (NA) | (NA) |
| 12. Little Big Horn Comm. College, Crow Agency | 292 | ** 141 | (NA) | (NA) |
| 13. Fort Peck Comm. College, Poplar | 190 | *** 82 | (NA) | (NA) |
| 14. Salish/Kootenai College, Pablo | 788 | 930 | (NA) | (NA) |

*
** One full-time equivalent = 333.3 contact-hours of instruction per quarter.
*** Represents head counts for fall quarter, not full-time equivalents.
Actual full-time equivalents for fall quarter only.

SOURCES: Map from Montana Office of Public Instruction, Executive Summary: 1985 Montana State Plan for the Administration of Vocational Education. Statistics from Montana Office of Public Instruction, Montana Commissioners of Higher Education, and Tribal Colleges listed.

## TABLE XIII - 10

## YEARS OF SCHOOL COMPLETED: 1980
(in thousands, except percent)

| | Montana | Idaho | Wyo. | Colo. | N. Mex. | Ariz. | Utah | Nev. | Mtn. Region | U.S. |
|---|---|---|---|---|---|---|---|---|---|---|
| Population 25+ Yrs | 451 | 514 | 255 | 1,664 | 707 | 1,559 | 705 | 480 | 6,335 | 132,836 |
| Yrs of School Completed: | | | | | | | | | | |
| Elem. (8 Yrs or less) | 64 | 65 | 25 | 176 | 125 | 234 | 50 | 46 | 784 | 24,258 |
| High School (1-3 Yrs) | 51 | 70 | 31 | 180 | 95 | 197 | 91 | 72 | 787 | 20,278 |
| High School (4 Yrs) | 171 | 188 | 102 | 575 | 241 | 535 | 253 | 194 | 2,260 | 45,947 |
| College (1-3 Yrs) | 86 | 110 | 53 | 351 | 121 | 321 | 170 | 99 | 1,312 | 20,795 |
| College (4+ Yrs) | 79 | 81 | 44 | 382 | 124 | 271 | 140 | 69 | 1,191 | 21,558 |
| % of Population Completing: | | | | | | | | | | |
| Elem. (8 Yrs or less) | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| High School (1-3 Yrs) | 85.7 | 87.4 | 90.0 | 89.4 | 82.3 | 85.0 | 93.0 | 90.4 | 87.6 | 81.7 |
| High School (4 Yrs) | 74.4 | 73.7 | 77.9 | 78.6 | 68.9 | 72.4 | 80.0 | 75.5 | 75.2 | 66.5 |
| College (1-3 Yrs) | 36.5 | 37.2 | 37.9 | 44.1 | 34.7 | 38.0 | 44.1 | 35.1 | 39.5 | 31.9 |
| College (4+ Yrs) | 17.5 | 15.8 | 17.2 | 23.0 | 17.5 | 17.4 | 19.9 | 14.4 | 18.8 | 16.2 |

SOURCE: U.S. Bureau of the Census, 1980 Census, General Social and Economic Characteristics, vols. for each state and the U.S.

## TABLE XIII - 11

## MONTANA PUBLIC LIBRARY STATISTICS
(as of June 30)

| Item | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
|---|---|---|---|---|---|---|---|
| Titles added during year | 82,426 | 75,757 | 75,738 | 73,455 | 79,695 | 82,129 | 90,161 |
| Total titles in collection | 1,319,635 | 1,418,931 | 1,486,261 | 1,665,011 | 1,635,466 | 1,646,144 | 1,798,471 |
| Total volumes in libraries | 1,777,714 | 1,887,107 | 1,984,625 | 2,149,027 | 2,136,108 | 2,166,145 | 2,255,667 |
| Local circulation | 3,754,867 | 3,606,352 | 3,981,513 | 3,723,378 | 3,476,014 | 3,690,791 | 3,787,651 |
| Bookmobile circulation | 360,565 | 238,932 | 229,018 | 203,584 | 288,684 | 319,312 | 202,770 |
| Periodicals currently received | 4,650 | 4,678 | 4,731 | 5,229 | 4,764 | 4,738 | 4,988 |
| Hours per week | 2,451.5 | 2,570.0 | 2,510.0 | 2,532.0 | 2,479.0 | 2,411.5 | 2,413.5 |
| Number of staff* | 210.1 | 222.4 | 240.8 | 233.0 | 249.5 | 243.6 | 224.0 |
| Number of county libraries** | 46 | 49 | 49 | 51 | 51 | 49 | (NA) |
| Volumes per capita | 2.6 | 2.7 | 2.9 | 3.1 | 3.1 | 2.7 | (NA) |
| Circulation per capita | 5.9 | 5.5 | 5.7 | 5.7 | 5.4 | 5.1 | (NA) |

* Full-time equivalent based on 40-hour week.

** Includes counties which have contracted for service with a city system.

SOURCE: Montana State Library, Montana Library Directory with Statistics of Montana Public Libraries, years indicated.

# CHAPTER XIV

# INFRASTRUCTURE

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## TABLE XIV - 1

MONTANA INFRASTRUCTURE INFORMATION AVAILABLE FROM THE FOLLOWING RESOURCE PEOPLE:

| Area | Name | Affiliation | Phone No. |
|---|---|---|---|
| Airports | Dave Kneedler<br>Vern Moody<br>Jerry Burrows | MT Dept. of Commerce (Aeronautics) | 444-2506 |
| Bridges<br>Streets<br>Roads | Don Fallang<br>Bill Gosnell | MT Dept. of Highways | 444-6110<br>444-6201 |
| Buses | Pat Saindon | MT Dept. of Commerce | 444-4267 |
| Sewers | Joe Steiner<br>Steve Pilcher | MT Dept. of Health & Env. Sci. (Water Quality Bureau) | 444-2406 |
| Water | Dan Fraser<br>Steve Pilcher | MT Dept. of Health & Env. Sci. (Water Quality Bureau) | 444-2406 |
|  | Ray Wadsworth | Rural Water Users Assn. (GF) | 454-1151 |
|  | Rodger Foster | Morrison-Maierle, Inc. | 442-3050 |
|  | Gordon Hoven | MT League of Cities & Towns | 442-8768 |
| Hazardous Waste | Roger Thorvilson<br>Duane Robertson | MT Dept. of Health & Env. Sci. (Solid Waste Bureau) | 444-2821 |
| Solid Waste | Duane Robertson | MT Dept. of Health & Env. Sci. (Solid Waste Bureau) | 444-2821 |
| Jails | Steve Nelson | MT Dept. of Justice | 444-3604 |
|  | Mike Lavin | MT Board of Crime Control | 444-3604 |
| Rails | John Craig | MT Dept. of Commerce | 444-3445 |
| Radio/ Communications | John Neraas | MT Dept. of Administration | 444-2586 |
| Other Facilities | Alec Hansen | MT League of Cities & Towns | 444-8768 |

TABLE XIV - 1
(cont.)

| Area | Name | Affiliation | Phone No. |
|---|---|---|---|
| Public Information | Bill Olson | MT Contractors Association | 442-4162 |
| Finance | Administrator | Community Development Div. (MT Dept. of Commerce) | 444-3757 |
|  | Mike Young | City of Missoula | 721-4700 |

NOTE: All of the above were involved in studies of Montana's infrastructure and can provide information on the areas indicated.

All information was compiled from the above sources by Dot Walther, Intern, Dept. of Commerce, Community Development Division.

Some of the above contact persons had accurate databases, some used projections or estimates.

SOURCE: Community Development Division, Montana Department of Commerce.

# CHAPTER XV

# HOUSING

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## TABLE XV - 1

## PERCENT OWNER-OCCUPIED HOUSING UNITS: 1980

| Area | Percent |
|---|---|
| United States | 64.4 |
| Montana | 68.6 |
| Idaho | 72.0 |
| Wyoming | 69.2 |

SOURCE: U.S. Bureau of the Census, State and Metropolitan Data Area Book, 1982, p. 493.

## TABLE XV - 2

## CONDITION & ADEQUACY OF HOUSING INDICATORS IN MONTANA, WITH COMPARISONS: 1980

| Item | | |
|---|---|---|
| Percent of Occupied Housing Units Lacking Complete Plumbing, 1980: | | |
| United States | | 2.2 |
| Montana | | 2.3 |
| Idaho | | 1.4 |
| Wyoming | | 1.6 |
| Percent of Occupied Housing Units with More than One Person per Room, 1980: | | |
| United States | | 4.5 |
| Montana | | 3.8 |
| Idaho | | 4.5 |
| Wyoming | | 4.2 |
| Housing, Median Number of Rooms, 1980: | | |
| United States | | 5.1 |
| Montana | | 4.9 |
| Idaho | | 5.1 |
| Wyoming | | 5.0 |
| Median Value of Owner-Occupied Units, 1980: | | |
| United States | | $47,300 |
| Montana | | $46,400 |
| Idaho | | $45,900 |
| Wyoming | | $60,400 |
| Median Rent of Renter-Occupied Housing, 1980: | | |
| United States | | $199 |
| Montana | | $165 |
| Idaho | | $172 |
| Wyoming | | $220 |
| Housing Vacancy Rates: | Homeowner | Rental |
| United States | 1.8 | 7.1 |
| Montana | 1.9 | 11.0 |
| Idaho | 2.3 | 11.4 |
| Wyoming | 2.2 | 9.7 |

SOURCE: U.S. Bureau of the Census, 1980 Census of Housing, Supplementary Reports, and Statistical Abstract of the United States, 1980, p. 762.

## TABLE XV - 3

## HOUSING UNITS IN MONTANA BY TYPE OF AREA: 1980
(including vacant seasonal & migratory units)

| Item | Value |
|---|---|
| Urban Housing: | |
| 1980 Housing Units | 171,389 |
| Percent of Total | 52.5 |
| Percent Change: | |
| 1970 - 1980 | 33.6 |
| 1960 - 1970 | 8.3 |
| Rural Housing: | |
| 1980 Housing Units | 157,076 |
| Percent Change: | |
| 1970 - 1980 | 32.8 |
| 1960 - 1970 | -7.3 |
| 1980 Units in Places of Less than 2,500 | 37,738 |

SOURCE: U.S. Bureau of the Census, Census of Housing: 1980, Computer Tape.

## TABLE XV - 4

## YEAR-ROUND HOUSING UNITS IN MONTANA OCCUPANCY CHARACTERISTICS: 1980, 1970, 1960

| Item | 1960 | 1970 | 1980 |
|---|---|---|---|
| Year-Round Units | 220,544 | 240,304 | 315,015 |
| Occupied Units | 202,240 | 217,304 | 283,742 |
| Owner-Occupied as Percent of All Occupied | 64.0 | 65.7 | 68.6 |
| Vacant, For Sale Only | 1,845 | 1,846 | 3,739 |
| Homeowner Vacancy Rate | 1.4 | 1.3 | 1.9 |
| Vacant, For Rent | 7,497 | 8,102 | 10,997 |
| Rental Vacancy Rate | 9.3 | 9.8 | 11.0 |

SOURCE: U.S. Bureau of the Census, Census of Housing: 1980, Computer Tape; 1970, Computer Tape; 1960, V. 1, pt 28.

## TABLE XV - 5

## YEAR-ROUND HOUSING UNITS IN MONTANA
## STRUCTURAL CHARACTERISTICS: 1970 & 1980

| Item | 1970 | 1980 |
|---|---|---|
| Year-Round Units | 240,755 | 315,098 |
| One-Unit Structures | 74.1% | 66.2% |
| In Structures w/2 or More Units | 18.9% | 20.8% |
| Mobile Homes or Trailers* | 7.0% | 12.9% |
| Units w/More than 1 Bathroom | 20.1% | 32.8% |
| Units w/3 or More Bedrooms | 43.1% | 47.9% |
| In Structures Built 1970 - 1980 | -- | 30.7% |

* Vacant mobile homes are excluded in 1970; included in 1980 if intended for occupancy where they stand.

SOURCE: U.S. Bureau of the Census, Census of Housing, Computer Tapes, 1970.

## TABLE XIII - 6

## OCCUPIED HOUSING UNITS IN MONTANA
## SELECTED CHARACTERISTICS: 1970 & 1980

| Item | 1970 | 1980 |
|---|---|---|
| Occupied Units | 217,304 | 283,742 |
| Median Number of Rooms | 4.7 | 5.0 |
| Median Number of Persons per Unit | 2.6 | 2.3 |
| Percent Lacking Complete Plumbing | 6.6 | 2.3 |
| Median Value, Specified Owner-Occupied | $14,000 | $46,500 |
| Median Contract Rent, Specified Renter-Occupied | $71 | $165 |

SOURCE: U.S. Bureau of the Census, Census of Housing: Computer Tapes, 1970 & 1980.

## TABLE XV - 7

## TENURE & OCCUPANCY STATUS OF MONTANA HOUSING BY PLUMBING & UTILIZATION CHARACTERISTICS: 1970 & 1980

| Item | Total Year-Round | | Total Occupied | | Renter-Occupied | |
|---|---|---|---|---|---|---|
| | 1970 | 1980 | 1970 | 1980 | 1970 | 1980 |
| Housing Units | 240,304 | 315,015 | 217,304 | 283,742 | 74,530 | 89,162 |
| w/Complete Plumbing for Exclusive Use | 218,558 | 304,218 | 202,977 | 277,178 | 66,910 | 85,518 |
| Lacking Complete Plumbing for Exclusive Use | 21,746 | 10,797 | 14,327 | 6,564 | 7,620 | 3,644 |
| No Plumbing Facilities | 8,395 | 4,638 | 4,352 | 2,465 | 1,661 | 999 |
| w/More than 1 Person per Room, Lacking Complete Plumbing for Exclusive Use | (X) | (X) | (NA) | 1,003 | (NA) | 423 |
| Tenure by Persons per Room: | | | | | | |
| 1.00 or Less | (X) | (X) | 196,527 | 272,958 | 67,061 | 84,891 |
| 1.01 to 1.50 | (X) | (X) | 15,450 | 7,830 | 5,328 | 2,793 |
| 1.51 or More | (X) | (X) | 5,327 | 2,954 | 2,141 | 1,478 |

NA - not available

X - not applicable

SOURCE: U.S. Bureau of the Census, Census of Housing: Computer Tapes, 1970 and 1980.

# TABLE XV - 8

## TENURE & OCCUPANCY STATUS OF MONTANA HOUSING BY STRUCTURAL CHARACTERISTICS: 1980 & 1970

| Item | Total Year-Round | | Total Occupied | | Renter-Occupied | |
|---|---|---|---|---|---|---|
| | 1970 | 1980 | 1970 | 1980 | 1970 | 1980 |
| Total Housing Units | 240,755 | 315,098 | 217,304 | 283,742 | 74,530 | 89,162 |
| Units in Structure: | | | | | | |
| 1 Unit | 178,394 | 208,673 | 161,236 | 192,477 | 38,964 | 37,269 |
| 2 Units | 14,870 | 17,213 | 13,333 | 15,001 | 9,442 | 10,460 |
| 3 & 4 Units | 11,033 | 17,291 | 9,142 | 13,550 | 7,942 | 10,965 |
| 5 or More Units | 19,523 | 31,134 | 16,658 | 26,280 | 15,503 | 23,285 |
| Mobile Homes or Trailers* | 16,935 | 40,787 | 16,935 | 36,434 | 2,679 | 7,183 |
| Structures by Year Built: | | | | | | |
| 1979 - March 1980 | (X) | 13,628 | (X) | 11,237 | (X) | 2,405 |
| 1975 - 1978 | (X) | 42,296 | (X) | 39,043 | (X) | 9,829 |
| 1970 - 1974 | (X) | 40,921 | (X) | 38,004 | (X) | 10,542 |
| 1960 - 1969 | 49,799 | 46,876 | 46,215 | 43,338 | 11,668 | 13,213 |
| 1950 - 1959 | 44,772 | 44,317 | 42,049 | 40,110 | 10,319 | 11,705 |
| 1940 - 1949 | 26,614 | 31,498 | 24,101 | 27,841 | 8,952 | 10,730 |
| 1930 or Earlier | 119,570 | 95,562 | 104,939 | 84,169 | 43,591 | 30,738 |

(X) - not applicable

* Vacant mobile homes excluded in 1970; included in 1980 if intended for occupancy where they stand.

SOURCE: U.S. Bureau of the Census, Census of Housing: Computer Tapes, 1970 and 1980.

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## TABLE XV - 9

## SPECIFIED OWNER-OCCUPIED NONCONDOMINIUM HOUSING UNITS
## BY VALUE: 1980
(with complete plumbing facilities for exclusive use)

| Item | Total | Rural Area |
|---|---|---|
| Specified Owner-Occupied* | 125,919 | 45,749 |
| Value Less than $10,000 | 3,920 | 2,307 |
| Value $10,000 - $14,999 | 4,718 | 2,391 |
| Value $15,000 - $19,999 | 5,880 | 2,744 |
| Value $20,000 - $24,999 | 7,626 | 3,205 |
| Value $25,000 - $29,999 | 7,648 | 3,011 |
| Value $30,000 - $34,999 | 9,093 | 3,224 |
| Value $35,000 - $39,999 | 9,244 | 2,967 |
| Value $40,000 - $49,999 | 22,517 | 6,988 |
| Value $50,000 - $64,999 | 28,303 | 8,543 |
| Value $65,000 - $79,999 | 15,175 | 5,377 |
| Value $80,000 - $99,999 | 7,187 | 2,819 |
| Value $100,000 - $149,999 | 3,604 | 1,650 |
| Value More than $150,000 | 1,004 | 523 |
| Mean Value (dollars) | $49,131 | $48,092 |

* One-unit structures on less than 10 acres; excludes mobile homes & trailers, & units with an office on the property.

SOURCE: U.S. Bureau of the Census, Census of Housing: 1980, Computer Tape

## TABLE XV - 10

## SPECIFIED RENTER-OCCUPIED HOUSING UNITS BY GROSS MONTHLY RENT: 1980

| Item | Total |
|---|---|
| Specified Renter-Occupied* | 81,887 |
| Gross Rent:** | |
| Less Than $60 | 2,250 |
| $60 - $119 | 9,762 |
| $120 - $169 | 15,048 |
| $170 - $199 | 10,525 |
| $200 - $249 | 15,316 |
| $250 - $299 | 10,281 |
| $300 - $399 | 9,349 |
| $400 or More | 2,609 |
| No Cash Rent | 6,747 |
| Median Gross Rent (dollars) | $200 |

* All renter-occupied units except one-family homes on a property of 10 or more acres.

** Contract rent plus monthly cost of utilities and fuels, if these items are paid for by renter.

SOURCE: U.S. Bureau of the Census, Census of Housing: 1980, Computer Tape

## TABLE XV - 11

## MORTGAGE STATUS OF MONTANA HOUSING UNITS & SELECTED MONTHLY OWNER COSTS[*]: 1980

| Item | Total |
|---|---|
| Specified Owner-Occupied Noncondominium Housing Units[**] | 126,604 |
| With a Mortgage | 74,390 |
| Monthly Costs: | |
| Less Than $100 | 634 |
| $100 to $149 | 1,717 |
| $150 to $199 | 5,518 |
| $200 to $249 | 10,446 |
| $250 to $299 | 10,232 |
| $300 to $399 | 17,936 |
| $400 to $499 | 13,853 |
| $500 to $599 | 7,456 |
| $600 to $749 | 4,653 |
| $750 or More | 1,945 |
| Median Monthly Cost (dollars) | $347 |
| Not Mortgaged | 52,214 |
| Monthly Costs: | |
| Less Than $50 | 1,723 |
| $50 to $74 | 6,879 |
| $75 to $99 | 13,199 |
| $100 to $124 | 12,511 |
| $125 to $149 | 8,336 |
| $150 to $199 | 7,064 |
| $200 to $249 | 1,703 |
| $250 or More | 799 |
| Median Monthly Cost (dollars) | $109 |

[*] "Selected Monthly Owner Costs" is the sum of payments for real estate taxes, property insurance, utilities, and regular mortgage payments.

[**] One-unit structures on less than 10 acres; excludes mobile homes and trailers, and units with a commercial or medical office on the property.

SOURCE: U.S. Bureau of the Census, Census of Housing: 1980, Computer Tape

## TABLE XV - 12

## OCCUPIED HOUSING UNITS IN MONTANA BY TYPE OF FUEL USED: 1970 & 1980

| Item | 1970 Total | 1970 Percent Distribution | 1980 Total | 1980 Percent Distribution |
|---|---|---|---|---|
| All Occupied Housing Units | 217,304 | 100.0 | 283,742 | 100.0 |
| House Heating Fuel: | | | | |
| *Utility Gas | 151,104 | 69.5 | 172,866 | 60.9 |
| Bottled, Tank or LP Gas | 18,503 | 8.5 | 21,055 | 7.4 |
| Electricity | 8,464 | 3.9 | 41,423 | 14.6 |
| Fuel Oil, Kerosene etc. | 29,850 | 13.7 | 19,144 | 6.7 |
| Coal or Coke | 4,531 | 2.1 | 2,811 | 1.0 |
| Wood | 4,113 | 1.9 | 25,817 | 9.1 |
| Other Fuel | 720 | 0.3 | 543 | 0.2 |
| No Fuel Used | 19 | 0.0 | 83 | 0.0 |
| Water Heating Fuel: | | | | |
| *Utility Gas | 134,503 | 61.9 | 158,821 | 56.0 |
| Bottled, Tank or LP Gas | 10,704 | 4.9 | 16,786 | 5.9 |
| Electricity | 64,323 | 29.6 | 103,590 | 36.5 |
| Fuel Oil, Kerosene etc. | 726 | 0.3 | 1,028 | 0.4 |
| Other Fuel | 921 | 0.4 | 1,153 | 0.4 |
| No Fuel Used | 6,127 | 2.8 | 2,364 | 0.8 |
| Cooking Fuel: | | | | |
| *Utility Gas | 54,447 | 25.1 | 48.658 | 17.1 |
| Bottled, Tank or LP Gas | 14,329 | 6.6 | 14,760 | 5.2 |
| Electricity | 142,739 | 65.7 | 216,854 | 76.4 |
| Other Fuel | 4,504 | 2.1 | 2,543 | 0.9 |
| No Fuel Used | 1,285 | 0.6 | 927 | 0.3 |

* Utility gas includes "gas from underground pipes serving the neighborhood."

SOURCE: U. S. Bureau of the Census, Census of Housing: Computer Tapes, 1970 & 1980.

Table XV-13

## TYPICAL ELECTRIC BILLS FOR RESIDENTIAL SERVICE IN MONTANA 1974-83
## (dollars)

| As of January 1 of the Year | Utility | MONTHLY BILLS 100 kWh | 250 kWh | 500 kWh | 750 kWh | 1,000 kWh |
|---|---|---|---|---|---|---|
| 1974[1] | **Montana Average** |  | **$8.59** | **$12.71** | **$16.31** | **$20.12** |
|  | **U.S. Average** |  | **9.47** | **14.10** | **19.14** | **24.85** |
| 1975 | Glacier Electric Cooperative, Inc. | $4.70 | 7.88 | 10.75 | 13.63 | 16.50 |
|  | Marias River Electric Cooperative, Inc. | 4.00 | 7.00 | 10.00 | 12.50 | 15.00 |
|  | Montana-Dakota Utilities[2] | 4.38 | 8.25 | 14.50 | 19.13 | 23.26 |
|  | Montana-Dakota Utilities[3] | 5.88 | 9.75 | 16.00 | 20.63 | 24.76 |
|  | Montana Power Company | 4.95 | 8.84 | 12.71 | 16.59 | 20.46 |
|  | Pacific Power and Light Company | 3.50 | 6.00 | 8.10[4] | 10.10[4] | 12.85[4] |
|  | **Montana Average** |  | **8.60** | **12.53** | **16.33** | **20.13** |
|  | **U.S. Average** |  | **11.49** | **17.93** | **24.72** | **32.29** |
| 1976 | Glacier Electric Cooperative, Inc. | 4.70 | 7.88 | 10.75 | 13.63 | 16.50 |
|  | Marias River Electric Cooperative, Inc. | 4.95 | 8.84 | 12.71 | 16.59 | 20.46 |
|  | Montana-Dakota Utilities[2] | 4.38 | 8.25 | 14.50 | 19.13 | 23.26 |
|  | Montana-Dakota Utilities[3] | 5.88 | 9.75 | 16.00 | 20.63 | 24.76 |
|  | Montana Power Company | 4.95 | 8.84 | 12.71 | 16.59 | 20.46 |
|  | Pacific Power and Light Company | 3.50 | 6.00 | 8.10[4] | 10.10[4] | 12.85[4] |
|  | **Montana Average** |  | **8.60** | **12.53** | **16.33** | **20.13** |
|  | **U.S. Average** |  | **12.06** | **19.26** | **26.78** | **34.85** |
| 1977 | Glacier Electric Cooperative, Inc. | 4.70 | 7.88 | 10.75 | 13.63 | 16.50 |
|  | Marias River Electric Cooperative, Inc. | 4.00 | 7.00 | 10.00 | 12.50 | 15.00 |
|  | Montana-Dakota Utilities[2] | 4.92 | 9.61 | 17.22 | 23.21 | 28.70 |
|  | Montana-Dakota Utilities[3] | 6.42 | 11.11 | 18.72 | 24.71 | 30.20 |
|  | Montana Power Company | 4.95 | 8.84 | 12.71 | 16.59 | 20.46 |
|  | Pacific Power and Light Company | 3.02 | 5.31 | 9.12[4] | 12.93[4] | 16.74[4] |
|  | **Montana Average** |  | **8.66** | **12.79** | **16.80** | **20.77** |
|  | **U.S. Average** |  | **12.85** | **20.86** | **29.22** | **38.15** |
| 1978 | Glacier Electric Cooperative, Inc. | 4.70 | 7.88 | 10.75 | 13.63 | 16.50 |
|  | Marias River Electric Cooperative, Inc. | 4.20 | 7.35 | 10.60 | 13.35 | 16.10 |
|  | Montana-Dakota Utilities[5] | 8.00 | 14.00 | 21.50 | 29.00 | 36.50 |
|  | Montana-Dakota Utilities[3] | 9.50 | 15.50 | 23.00 | 30.50 | 38.00 |
|  | Montana Power Company | 5.99 | 10.69 | 15.39 | 20.09 | 24.79 |
|  | Pacific Power and Light Company | 3.03 | 5.33 | 9.17[4] | 13.00[4] | 16.83[4] |
|  | **Montana Average** |  | **10.56** | **15.39** | **20.21** | **25.03** |
|  | **U.S. Average** |  | **13.47** | **22.19** | **31.23** | **40.98** |
| 1979 | Glacier Electric Cooperative, Inc. | 4.70 | 7.88 | 10.75 | 13.63 | 16.50 |
|  | Marias River Electric Cooperative, Inc. | 4.60 | 8.35 | 12.60 | 16.35 | 20.10 |
|  | Montana-Dakota Utilities[2] | 8.00 | 14.00 | 21.50 | 29.00 | 36.50 |
|  | Montana-Dakota Utilities[3] | 9.50 | 15.50 | 23.00 | 30.50 | 38.00 |
|  | Montana Power Company | 4.72 | 8.41 | 14.58 | 20.74 | 26.90 |
|  | Pacific Power and Light Company | 3.91 | 6.78 | 11.56 | 16.33 | 21.11 |
|  | **Average for Rural Electric Cooperatives** | **NA** | **11.42** | **17.23** | **22.60** | **27.64** |
|  | **Montana Average** | **NA** | **8.73** | **14.86** | **20.98** | **27.10** |
|  | **U.S. Average** | **NA** | **13.86** | **23.05** | **32.72** | **43.12** |

## Table XV-13 (continued)

| As of January 1 of the Year | Utility | MONTHLY BILLS | | | | |
|---|---|---|---|---|---|---|
| | | 250 kWh | 500 kWh | 750 kWh | 1,000 kWh | 2,500 kWh |
| 1980 | Montana-Dakota Utilities[2] | $ 13.84 | $ 21.34 | $ 28.84 | $ 36.34 | $ 81.34 |
| | Montana-Dakota Utilities[6] | 15.34 | 22.84 | 30.34 | 37.84 | 82.84 |
| | Montana Power Company | 8.45 | 14.65 | 20.85 | 27.05 | 64.26 |
| | Pacific Power and Light Company | 6.78 | 11.66 | 16.33 | 21.11 | 49.78 |
| | **Average for Rural Electric Cooperatives** | **12.46** | **18.15** | **23.82** | **29.47** | **58.33** |
| | **Montana Average** | **8.77** | **14.99** | **21.20** | **27.41** | **64.71** |
| | **U.S. Average** | **15.29** | **27.80** | **36.94** | **48.79** | **110.91** |
| 1981 | Montana-Dakota Utilities[2] | 14.56 | 22.78 | 31.00 | 39.22 | 88.55 |
| | Montana-Dakota Utilities[6] | 16.06 | 24.28 | 32.50 | 40.72 | 90.05 |
| | Montana Power Company | 10.04 | 17.41 | 24.78 | 32.16 | 76.39 |
| | Pacific Power and Light Company | 7.56 | 13.12 | 18.68 | 24.24 | 57.60 |
| | **Average for Rural Electric Cooperatives** | **12.81** | **19.61** | **25.99** | **32.32** | **66.72** |
| | **Montana Average** | **10.24** | **17.57** | **24.90** | **32.23** | **76.20** |
| | **U.S. Average** | **17.76** | **32.61** | **43.99** | **58.16** | **133.90** |
| 1982 | Montana-Dakota Utilities[2] | 13.91 | 30.49 | 47.74 | 64.99 | 168.49 |
| | Montana-Dakota Utilities[6] | 15.41 | 31.99 | 49.24 | 66.49 | 169.99 |
| | Montana Power Company | 9.90 | 17.17 | 24.43 | 31.69 | 75.27 |
| | Pacific Power and Light Company[7] | 3.98 | 10.12 | 16.80 | 23.48 | 79.47 |
| | Pacific Power and Light Company[8] | 3.98 | 10.12 | 18.24 | 27.33 | 81.86 |
| | **Average for Private Utilities** | **9.84** | **17.69** | **25.61** | **33.53** | **81.98** |
| | **Average for Rural Electric Cooperatives[9]** | **13.95** | **21.65** | **28.35** | **36.66** | **79.00** |
| | **Montana Average** | **9.84** | **17.69** | **25.61** | **33.53** | **81.98** |
| | **U.S. Average** | **19.82** | **36.96** | **50.07** | **66.39** | **155.69** |
| 1983 | Montana-Dakota Utilities[2] | 13.91 | 30.49 | 47.74 | 64.99 | 168.49 |
| | Montana-Dakota Utilities[6] | 15.41 | 31.99 | 49.24 | 66.49 | 169.99 |
| | Montana Power Company | 12.23 | 21.18 | 30.12 | 39.07 | 92.76 |
| | Pacific Power and Light Company[7] | 5.36 | 13.51 | 22.37 | 31.22 | 105.23 |
| | Pacific Power and Light Company[8] | 5.36 | 13.51 | 24.14 | 35.96 | 106.87 |
| | **Average for Private Utilities** | **11.95** | **21.38** | **30.90** | **40.42** | **98.73** |
| | **Average for Rural Electric Cooperatives[9]** | **13.95** | **21.65** | **28.35** | **36.66** | **79.00** |
| | **Montana Average** | **11.95** | **21.38** | **30.90** | **40.42** | **98.73** |
| | **U.S. Average** | **20.72** | **38.35** | **52.74** | **69.96** | **160.22** |

NA Not Available

[1] Data for 1974 obtained from 1975 report; digits replaced by question marks are illegible in the source document.

[2] Data computed for service from overhead distribution system—majority of customers.

[3] Data computed for service from underground distribution system—minority of customers.

[4] Rate used may limit hours of use of water heating devices.

[5] Data computed for service from overhead distribution system—minority of users.

[6] Data computed for service from underground distribution system—majority of customers.

[7] Data based on rates effective during utility-specified winter period.

[8] Data based on rates effective during utility-specified summer period.

[9] Averages shown are weighted by the number of billed customers.

NOTE: The kilowatt-hour usage categories represent broad monthly residential consumption patterns.

From 1975-79, the usage categories were as follows:
100 kWh: lighting, small appliances, and refrigeration
250 kWh: lighting, appliances, refrigeration, and cooking
500, 750, and 1,000 kWh: lighting, appliances, refrigeration, cooking, and water heating.

Beginning in 1980, the 100 kWh usage category was deleted, the 2,500 kWh category was added, and the consumption categories were redefined as follows:
250 and 500 kWh: lighting, appliances, refrigeration, and cooking
750 and 1,000 kWh: lighting, appliances, refrigeration, cooking, and water heating
2,500 kWh: lighting, appliances, refrigeration, cooking, water heating, and/or space heating.

BASED ON: Federal Power Commission, *Typical Electric Bills*, annual reports for 1975-76; U.S. Department of Energy, Energy Information Administration, *Typical Electric Bills*, annual reports for 1977-83 (EIA-0040).

The average bills for rural electric cooperatives for the years 1979-81 were obtained from U.S. Department of Agriculture, Rural Electrification Administration, *Statistical Report, Rural Electric Borrowers*, annual reports for 1979-81 (REA bulletin number 1-1).

*Source: Montana Department of Natural Resources and Conservation, Montana Historical Energy Statistics, February 1984.*

# TABLE XV - 14

## TYPICAL ELECTRIC BILLS FOR COMMERCIAL SERVICE IN MONTANA
## 1975 - 1983*
## (dollars)

| Billing Demand: | 3 kW | 6 kW | 12 kW | 30 kW | 40 kW | 50 kW | 100 kW |
|---|---|---|---|---|---|---|---|
| Consumption: | 375 kWh | 750 kWh | 1,500 kWh | 6,000 kWh | 10,000 kWh | 12,500 kWh | 30,000 kWh |
| 1/1/75 | $15.32 | $29.46 | $60.39 | $178.88 | $238.78 | | |
| 1/1/76 | 15.32 | 29.46 | 60.39 | 178.88 | 238.78 | | |
| 1/1/77 | 15.32 | 29.46 | 60.39 | 178.88 | 238.78 | | |
| 1/1/78 | 18.53 | 35.63 | 73.05 | 216.59 | 289.19 | | |
| 1/1/79 | 17.81 | 34.32 | 70.25 | 212.61 | 289.35 | | |
| 1/1/80 | | 34.50 | 70.62 | 213.73 | 290.87 | 343.66 | $664.17 |
| 1/1/81 | | 41.01 | 83.95 | 254.07 | 345.77 | 408.52 | 789.53 |
| 1/1/82 | | 40.41 | 82.72 | 250.34 | 340.70 | 402.53 | 777.95 |
| 1/1/83 | | 50.22 | 102.82 | 311.16 | 423.47 | 500.32 | 966.94 |

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, February 1984. For the Montana Power Company only. Based on Federal Power Commission, Typical Electric Bills, annual reports for 1975-76; U.S. Dept. of Energy, Energy Information, Typical Electric Bills, annual reports for 1977-83.

## TABLE XV - 15

## TYPICAL ELECTRIC BILLS FOR INDUSTRIAL SERVICE IN MONTANA: 1975-83*
(dollars)

| Billing Demand<br>Consumption: | 75 kW<br>15 MWh | 75 kW<br>30 MWh | 150 kW<br>30 MWh | 150 kW<br>60 MWh | 300 kW<br>60 MWh | 300 kW<br>120 MWh | 500 kW<br>100 MWh | 500 [illegible]W<br>200 MWh | 1,000 kW<br>200 MWh | 1,000 kW<br>400 MWh | 5,000 kW<br>1,500 MWh | 5,000 kW<br>2,500 MWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January 1, 1975 | $339 | $500 | $583 | $850 | $1,049 | $1,517 | $1,671 | $2,407 | $3,226 | $4,632 | | |
| January 1, 1976 | 339 | 500 | 583 | 850 | 1,049 | 1,517 | 1,671 | 2,407 | 3,226 | 4,632 | | |
| January 1, 1977 | 339 | 500 | 583 | 850 | 1,049 | 1,517 | 1,671 | 2,407 | 3,226 | 4,632 | | |
| January 1, 1978 | 410 | 605 | 706 | 1,029 | 1,270 | 1,836 | 2,022 | 2,912 | 3,902 | 5,602 | | |
| January 1, 1979 | 413 | 630 | 721 | 1,096 | 1,314 | 1,992 | 2,105 | 3,186 | 4,082 | 6,172 | | |
| January 1, 1980 | | | 725 | 1,102 | 1,321 | 2,002 | 2,116 | 3,203 | 4,104 | 6,204 | $25,145 | $35,285 |
| January 1, 1981 | | | 862 | 1,310 | 1,571 | 2,380 | 2,516 | 3,808 | 4,878 | 7,375 | 29,891 | 41,945 |
| January 1, 1982 | | | 849 | 1,291 | 1,548 | 2,346 | 2,479 | 3,752 | 4,807 | 7,267 | 29,453 | 41,330 |
| January 1, 1983 | | | 1,056 | 1,604 | 1,924 | 2,915 | 3,081 | 4,663 | 5,974 | 9,033 | 36,608 | 51,370 |

* For the Montana Power Company only.

NOTE: Energy is metered on secondary side of utility-owned transformers.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, February 1984, p. 31. Based on Federal Power Commission, Typical Electric Bills, annual reports for 1975-76; U.S. Dept. of Energy, Energy Information Administration, Typical Electric Bills, annual reports for 1977-83.

## TABLE XV - 16

## AVERAGE NATURAL GAS CONSUMPTION & ANNUAL COST PER CONSUMER IN MONTANA
## 1980 - 1982

| Year | Sector | Consumption (thou. cu.ft.) | Cost (dollars) |
|---|---|---|---|
| 1980 | Residential | 117 | $ 356 |
| | Commercial | 670 | 2,089 |
| | Industrial | 32,841 | 103,218 |
| 1981 | Residential | 104 | 389 |
| | Commercial | 610 | 2,523 |
| | Industrial | 31,364 | 133,551 |
| 1982 | Residential | 121 | 538 |
| | Commercial | 780 | 3,800 |
| | Industrial | 24,013 | 131,770 |

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, February 1984. Based on U.S. Dept. of Energy, Energy Information Administration, Natural Gas Annual, annual reports for 1980/82.

# CHAPTER XVI

# CRIME

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# TABLE XVI - 1

## MONTANA CRIME INDEX: ACTUAL OFFENSES* & RATES** FOR CRIMES AGAINST PERSONS

| Year | Homicide | | Rape | | Robbery | | Aggravated Assault | | Total Offenses | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Number | Rate | Number | Rate | Number | Rate | Number | Rate | Number | Rate |
| 1975 | 46 | 6.1 | 132 | 17.6 | 347 | 46.4 | 1,462 | 195.5 | 1,987 | 256.6 |
| 1976 | 41 | 5.4 | 124 | 16.5 | 283 | 37.6 | 1,137 | 151.0 | 1,585 | 210.5 |
| 1977 | 40 | 5.3 | 138 | 18.1 | 295 | 38.3 | 1,437 | 188.8 | 1,910 | 251.0 |
| 1978 | 37 | 4.7 | 146 | 18.6 | 259 | 33.0 | 1,519 | 193.5 | 1,961 | 249.8 |
| 1979 | 41 | 5.2 | 183 | 23.3 | 261 | 33.2 | 1,361 | 173.2 | 1,846 | 234.9 |
| 1980 | 30 | 3.8 | 166 | 21.1 | 257 | 32.7 | 1,243 | 158.1 | 1,696 | 215.7 |
| 1981 | 40 | 5.1 | 186 | 23.5 | 280 | 35.4 | 1,315 | 166.0 | 1,821 | 229.9 |
| 1982 | 27 | 3.4 | 128 | 16.0 | 280 | 35.0 | 1,335 | 166.7 | 1,770 | 221.0 |
| 1983 | 26 | 3.2 | 153 | 18.7 | 195 | 23.9 | 1,448 | 177.2 | 1,822 | 223.0 |

NOTE: The seven crimes listed in this and the following table were selected as index crimes because they are the most common serious crimes and the most likely to be reported to the police. The numerous other felony and misdemeanor offenses are not included in the crime index.

The crime index is only an indication of the amount and type of crime occurring in a jurisdiction. It is not an absolute measure. If multiple crimes were committed during one incident, only the most serious is reported. Also, many crimes are never reported to the police.

* "Actual offenses" include only those offenses known by the police less the number of unfounded offenses.

** "Rate" means incidence per 100,000 population.

SOURCE: Montana Board of Crime Control, Crime in Montana, years indicated.

## TABLE XVI - 2

## MONTANA CRIME INDEX: ACTUAL OFFENSES* & RATES** FOR CRIMES AGAINST PROPERTY

| Year | Burglary | | Larceny/Theft | | Motor Vehicle Theft | | Total Offenses | |
|---|---|---|---|---|---|---|---|---|
| | Number | Rate | Number | Rate | Number | Rate | Number | Rate |
| 1975 | 7,240 | 967.9 | 21,417 | 2,863.2 | 2,530 | 338.2 | 31,187 | 4,169.4 |
| 1976 | 6,665 | 885.1 | 21,560 | 2,863.2 | 2,327 | 309.4 | 30,552 | 4,057.4 |
| 1977 | 6,363 | 836.1 | 21,214 | 2,787.6 | 2,413 | 317.1 | 29,990 | 3,940.9 |
| 1978 | 6,270 | 798.7 | 20,563 | 2,619.5 | 2,452 | 312.4 | 29,285 | 3,730.6 |
| 1979 | 6,826 | 804.8 | 24,304 | 3,092.1 | 2,404 | 305.9 | 33,034 | 4,202.8 |
| 1980 | 7,027 | 893.5 | 25,749 | 3,274.2 | 2,319 | 294.9 | 35,095 | 4,462.7 |
| 1981 | 7,144 | 902.0 | 24,945 | 3,149.9 | 1,962 | 247.7 | 35,051 | 4,299.4 |
| 1982 | 6,509 | 812.6 | 24,225 | 3,024.3 | 1,991 | 248.6 | 32,725 | 4,085.5 |
| 1983 | 6,817 | 834.4 | 24,417 | 2,988.6 | 1,924 | 235.5 | 33,158 | 4,058.5 |

NOTE: The seven crimes listed in this and the previous table were selected as index crimes because they are the most common serious crimes and the most likely to be reported to the police. The numerous other felony and misdemeanor offenses are not included in the crime index.

The crime index is only an indication of the amount and type of crime occurring in a jurisdiction. It is not an absolute measure. If multiple crimes were committed during one incident, only the most serious is reported. Also, many crimes are never reported to the police.

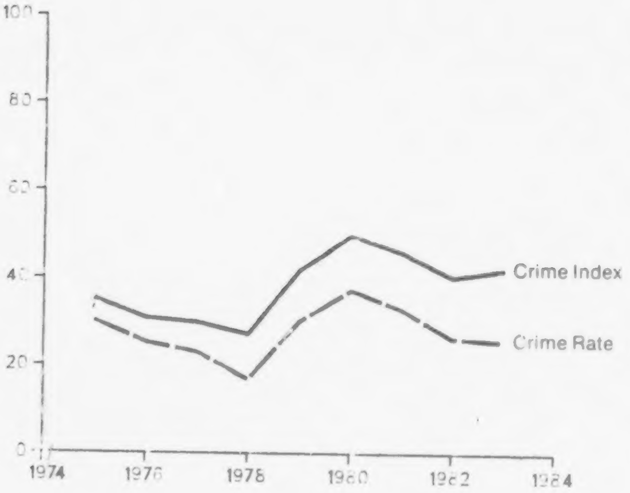
* "Actual offenses" include only those offenses known by the police less the number of unfounded offenses.

** "Rate" means incidence per 100,000 population.

SOURCE: Montana Board of Crime Control, Crime in Montana, years indicated.

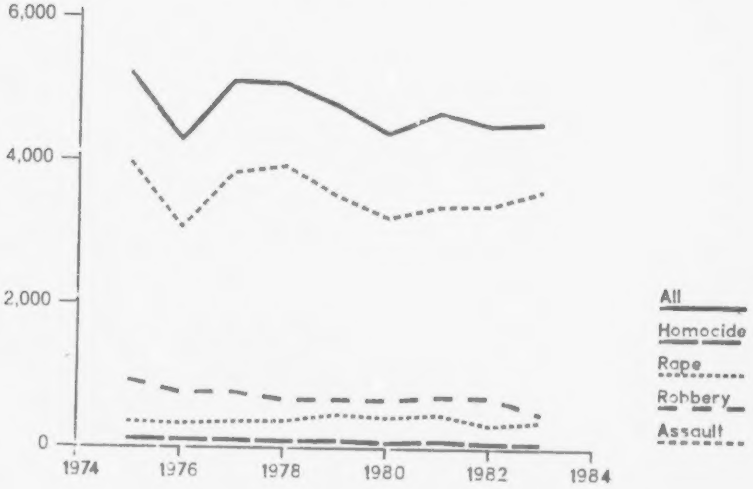
## FIGURE XVI-1

Crime Rate



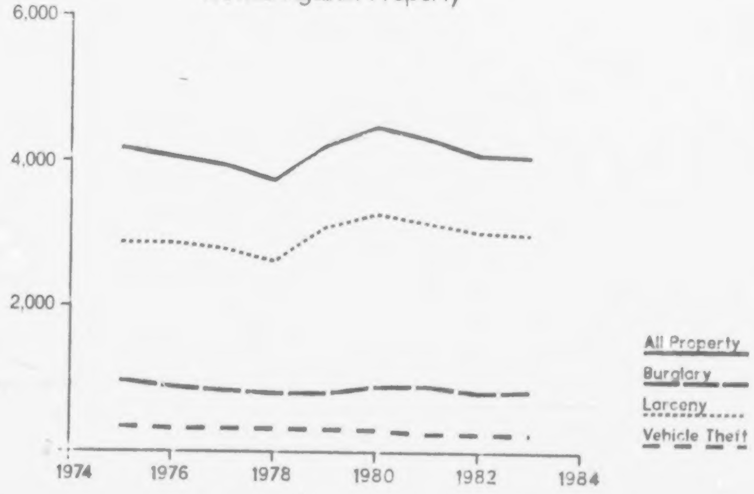
## FIGURE XVI-2

Crimes Against People



## FIGURE XVI-3

Crimes Against Property



Note:

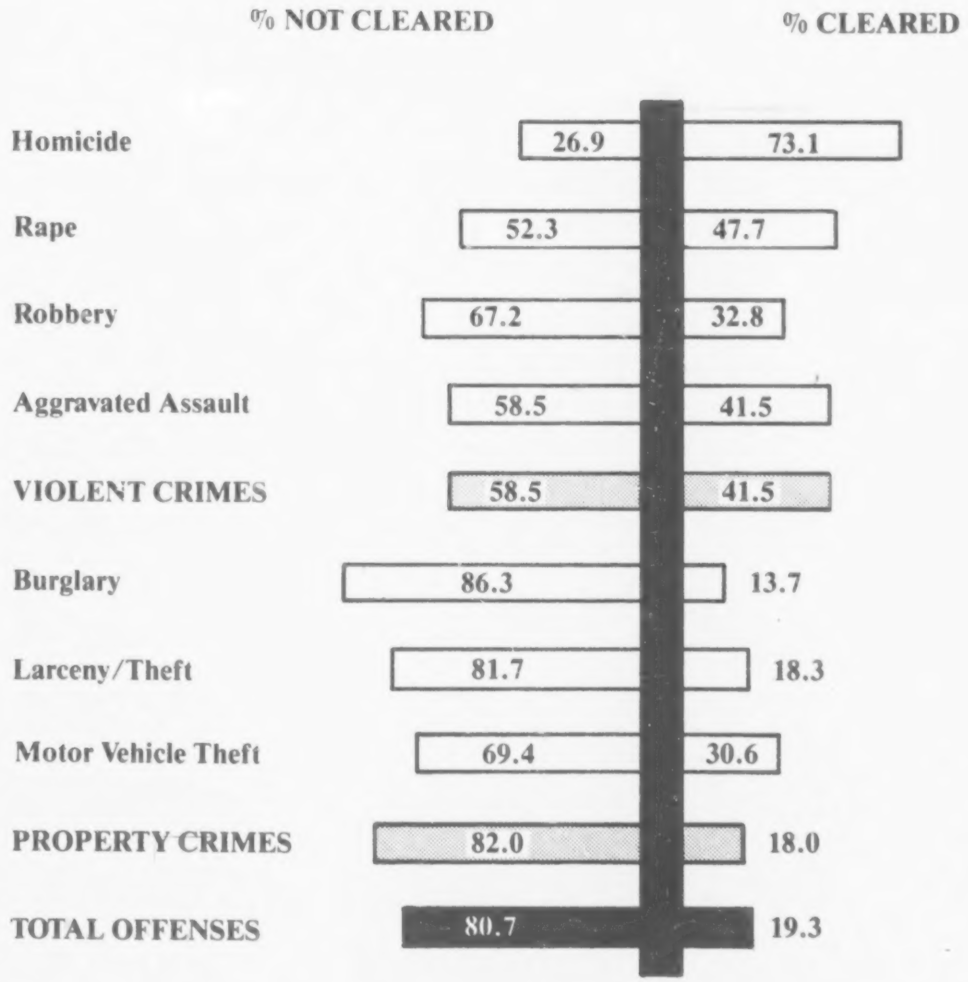
Crime Rate—Incidence per 100,000 population.

Crime Index—Total number of the actual offenses of the seven major crimes reported.

*Source: Montana Board of Crime Control.*

FIGURE XVI-4

## PERCENTAGE OF ACTUAL OFFENSES CLEARED BY ARREST — 1983 SEVEN INDEX CRIMES

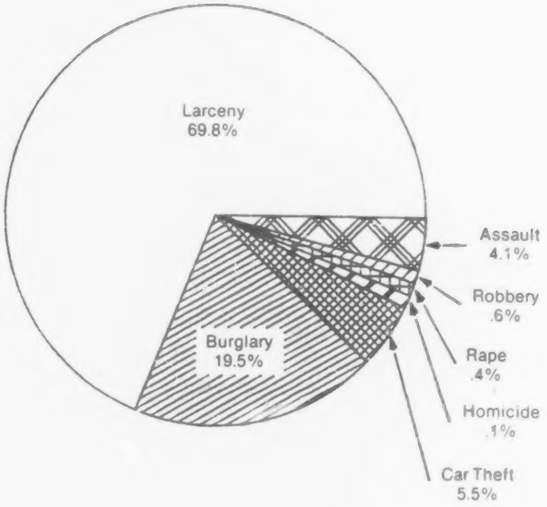


NOTE: An offense is considered cleared when a law enforcement agency has identified the offender, gathered sufficient evidence, and filed a charge. The arrest of one person can clear several crimes or conversely, several persons may be arrested in the process of clearing one crime.

*Source: Montana Board of Crime Control, Crime in Montana: 1983 Annual Report, 1984.*

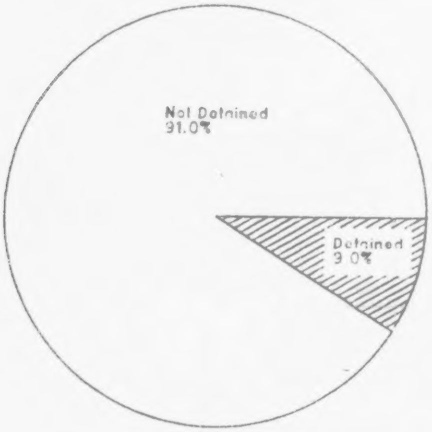
## FIGURE XVI-5

Montana
Crime Index Profile
1983



## FIGURE XVI-6

1983 Rate of Detention
As a Per Cent of 6,004 Total Youth Court Referrals in Montana

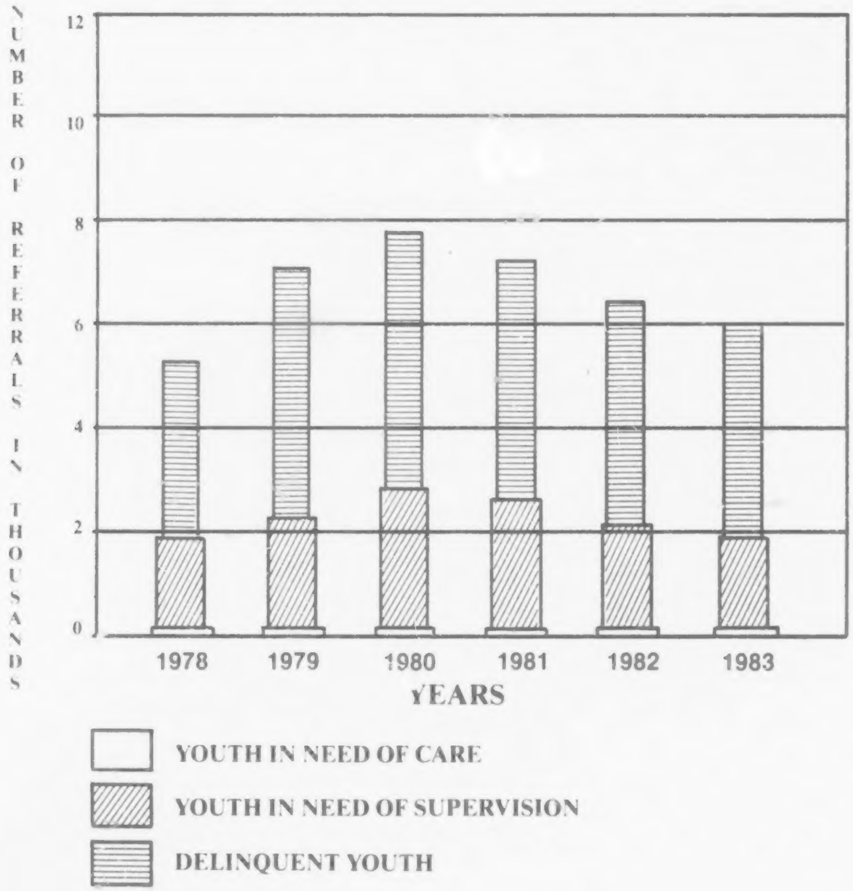


*Source: Montana Board of Crime Control.*

## FIGURE XVI-7

# MONTANA YOUTH COURT REFERRALS

### 1978 TO 1983

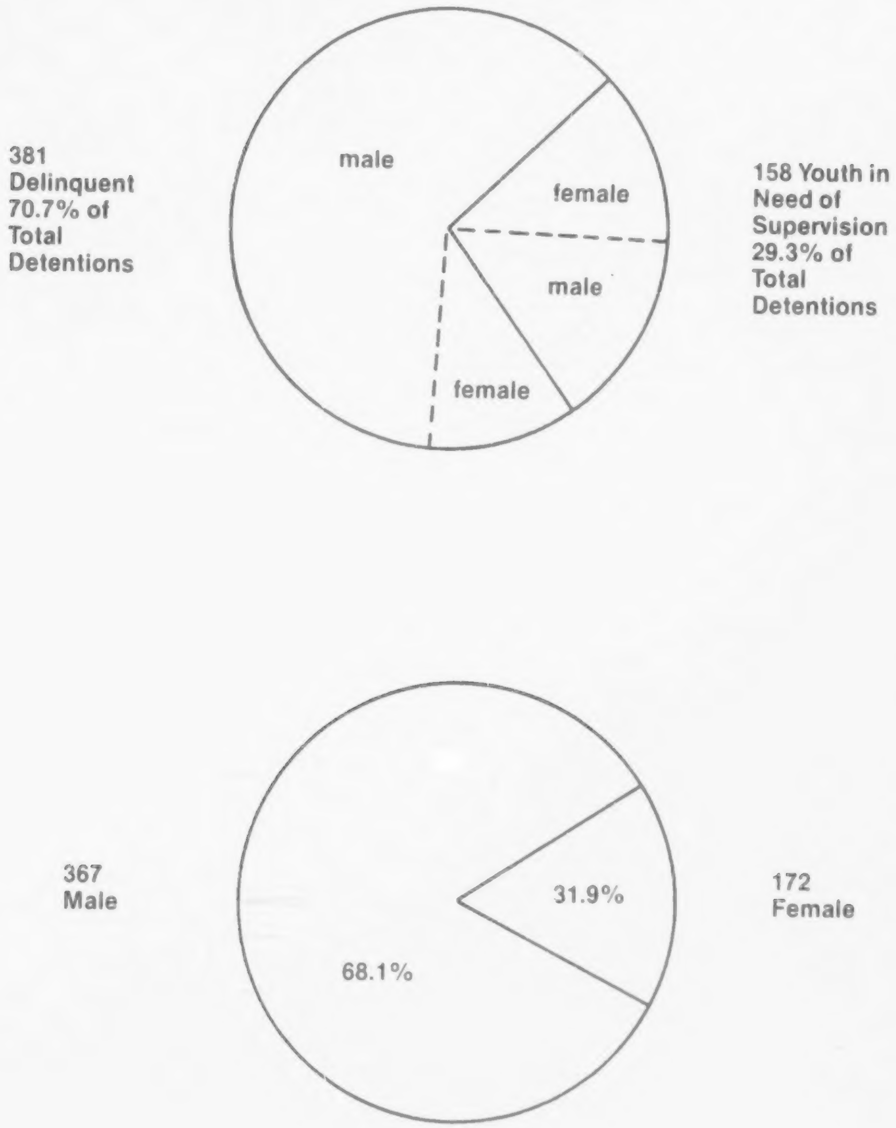


NOTE: A delinquent youth is a youth who commits any criminal offense. A youth in need of supervision is a youth who has committed an offense which is illegal only for minors. Such offenses include, but are not limited to, runaway, truancy, and liquor violations. Youth in need of supervision are commonly referred to as status offenders and the offenses they commit are called status offenses.

*Source: Montana Board of Crime Control, Crime in Montana: 1983 Annual Report, 1984*

FIGURE XVI-8

TYPE OF YOUTH DETAINED IN 1983
BY CLASSIFICATION AND SEX OF YOUTH



Source: *Montana Board of Crime Control, Crime in Montana: 1983 Annual Report, 1984.*

# CHAPTER XVII

# LAND USE

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## TABLE XVII - 1

## SPECIAL GEOGRAPHIC FEATURES OF MONTANA

| Item | Value |
|---|---|
| Land Area | 145,603 sq. mi. |
| Water Area | 1,535 sq. mi. |
| Total Area | 147,138 sq. mi. |
| Rank/US, Land & Water Area | 4th |
| Highest Point (Granite Peak) | 12,799 ft. elevation |
| Lowest Point (Kootenai River) | 1,800 ft. elevation |
| Geographic Center | 12 mi. west of Lewistown |

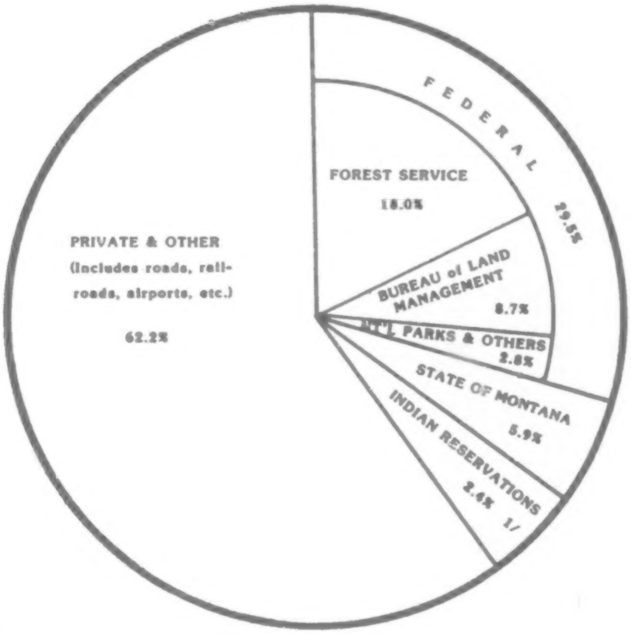
SOURCE: U.S. Geological Survey, The National Atlas of the United States, 1970, p. 336.

## FIGURE XVII-1

**MONTANA LAND AREA (93.2 Million Acres)**

**Ownership as Percentage of Total**

1978



1/ Tribal lands only.

*Source: Montana Crop and Livestock Reporting Service, from federal and state sources.*

## TABLE XVII - 2

## INDIAN LANDS IN SELECTED STATES AND IN THE U.S.
1940 - 1981
(in thousands of acres)

| Year | Montana | Idaho | Wyoming | U.S. |
|---|---|---|---|---|
| 1940 | 6,455 | 818 | 2,013 | 55,406 |
| 1960 | 5,457 | 835 | 1,890 | 58,076 |
| 1970 | 5,274 | 828 | 1,887 | 55,408 |
| 1975 | 5,282 | 827 | 1,886 | 52,316 |
| 1978 | 5,275 | 828 | 1,887 | 52,885 |
| 1979 | 5,258 | 827 | 1,888 | 52,962 |
| 1980 | 5,249 | 827 | 1,888 | 52,993 |
| 1981: | | | | |
| Total | 5,240 | 827 | 1,888 | 52,473 |
| Indian Trust | | | | |
| Allotted | 3,017 | 332 | 95 | 10,962 |
| Tribal | 2,220 | 462 | 1,792 | 41,062 |
| Goverment | | | | |
| Owned | 3 | 33 | 1 | 449 |

NOTE: Indian trust allotted lands are private landholdings of individual Indians. Tribal lands are lands held by Indian tribes. Beginning in 1960, taxable lands generally included. Beginning in 1975, includes tribal lands.

SOURCE: U.S. Bureau of Indian Affairs, Annual Report of Indian Land, and unpublished data.

## TABLE XVII - 3

## URBAN LAND AREA: 1960 - 1980
(in acres)

| State | Urban Area (1,000) | | | Urban Area per Capita* | | |
|---|---|---|---|---|---|---|
| | 1960 | 1970 | 1980 | 1960 | 1970 | 1980 |
| Montana | 54 | 76 | 118 | .16 | .20 | .28 |
| Idaho | 74 | 105 | 154 | .23 | .27 | .30 |
| Wyoming | 36 | 49 | 91 | .19 | .24 | .31 |

* based on urban resident population enumerated as of April 1.

SOURCE: U.S. Dept. of Agriculture, Economic Research Service, Expansion of Urban Area, 1960-1980. Data from U.S. Bureau of the Census.

## TABLE XVII - 4

## NATIONAL PARK SYSTEM: 1980

| Area | Number of Areas | 1,000 Visits |
|---|---|---|
| United States | 272 | 297,731 |
| Montana | 6 | 2,962 |
| Idaho | 2 | 350 |
| Wyoming | 5 | 6,239 |

SOURCE: U. S. Bureau of the Census, State and Metropolitan Area Data Book, 1982, p. 496.

## TABLE XVII - 5

## STATE PARK & RECREATION AREAS: 1980 & 1982*

| Area | 1982 Acreage (1,000) | Visitors (1,000) | | Expenditures** (mil. dol.) | |
|---|---|---|---|---|---|
| | | 1980 | 1982 | 1980 | 1982 |
| United States | 9,912 | 548,912 | 631,031 | 993 | 888 |
| Montana | 46 | 1,030 | 3,081 | 5 | 3 |
| Idaho | 42 | 2,049 | 1,915 | 4 | 3 |
| Wyoming | 123 | (NA) | 521 | 2 | 2 |

* For years ending June 30. Data are shown as reported by state park directors. In some states, park agency has under its control forests, fish & wildlife areas and/or other areas. In other states, agency is only responsible for state parks.

** Excludes capital outlay expenditures.

SOURCE: National Association of State Park Directors, Indianapolis, Indiana, Annual Information Exchange.

## TABLE XVII - 6

## NATIONAL WILDERNESS PRESERVATION SYSTEM: 1980*

| Area | Number of Areas | Visitors (1,000) |
|---|---|---|
| United States | 257 | 79,795 |
| Montana | 14 | 3,172 |
| Idaho | 6 | 3,868 |
| Wyoming | 6 | 2,194 |

* Does not include major additions in the 1980's.

SOURCE: U.S. Bureau of the Census, State and Metropolitan Area Data Book, 1982, p. 496.

## TABLE XVII - 7

## WILDERNESS AREAS IN MONTANA: 1984

| Wilderness | Agency/Land Unit | Net Federal Acreage | Year Designated | Public Law No. |
|---|---|---|---|---|
| Absaroka-Beartooth | USFS/Custer, Gallatin | 920,377 | 1978 | 95-249 |
| Anaconda-Pintlar | USFS/Beaverhead, Bitterroot | 157,874 | 1964 | 88-577 |
| Bob Marshall | USFS/Flathead, Lewis & Clark | 1,009,356 | 1978 | 95-546 |
| Cabinet Mountains | USFS/Kaniksu, Kootenai | 94,272 | 1964 | 88-577 |
| Gates of the Mountains | USFS/Helena | 28,562 | 1964 | 88-577 |
| Great Bear | USFS/Flathead | 286,700 | 1978 | 95-546 |
| Lee Metcalf | | 259,000 | 1983 | |
| Beartrap Canyon | BLM/ID | 6,000 | 1983 | 98-140 |
| Monument Mountain | USFS/Gallatin | 34,000 | 1983 | 98-140 |
| Spanish Peaks | USFS/Gallatin | 78,000 | 1983 | 98-140 |
| Taylor-Hilgard | USFS/Beaverhead, Gallatin | 141,000 | 1983 | 98-140 |
| Medicine Lake | FWP/Medicine Lake | 11,800 | 1976 | 94-557 |
| Mission Mountains | USFS/Flathead | 73,877 | 1975 | 93-632 |
| Rattlesnake | USFS/Lolo | 20,119 | 1980 | 96-476 |
| Red Rocks Lakes | FWS/Red Rock Lakes | 32,350 | 1976 | 94-557 |
| Scapegoat | USFS/Helena, Lewis & Clark, Lolo | 239,296 | 1972 | 92-395 |
| Selway-Bitterroot* | USFS/Bitterroot, Lolo | 248,893 | 1964 | 88-577 |
| UL Bend | FWS/UL Bend | 20,847 | 1976 | 94-557 |
| Welcome Creek | USFS/Lolo | 28,135 | 1978 | 95-237 |
| State Total: | | 3,431,458 | | |

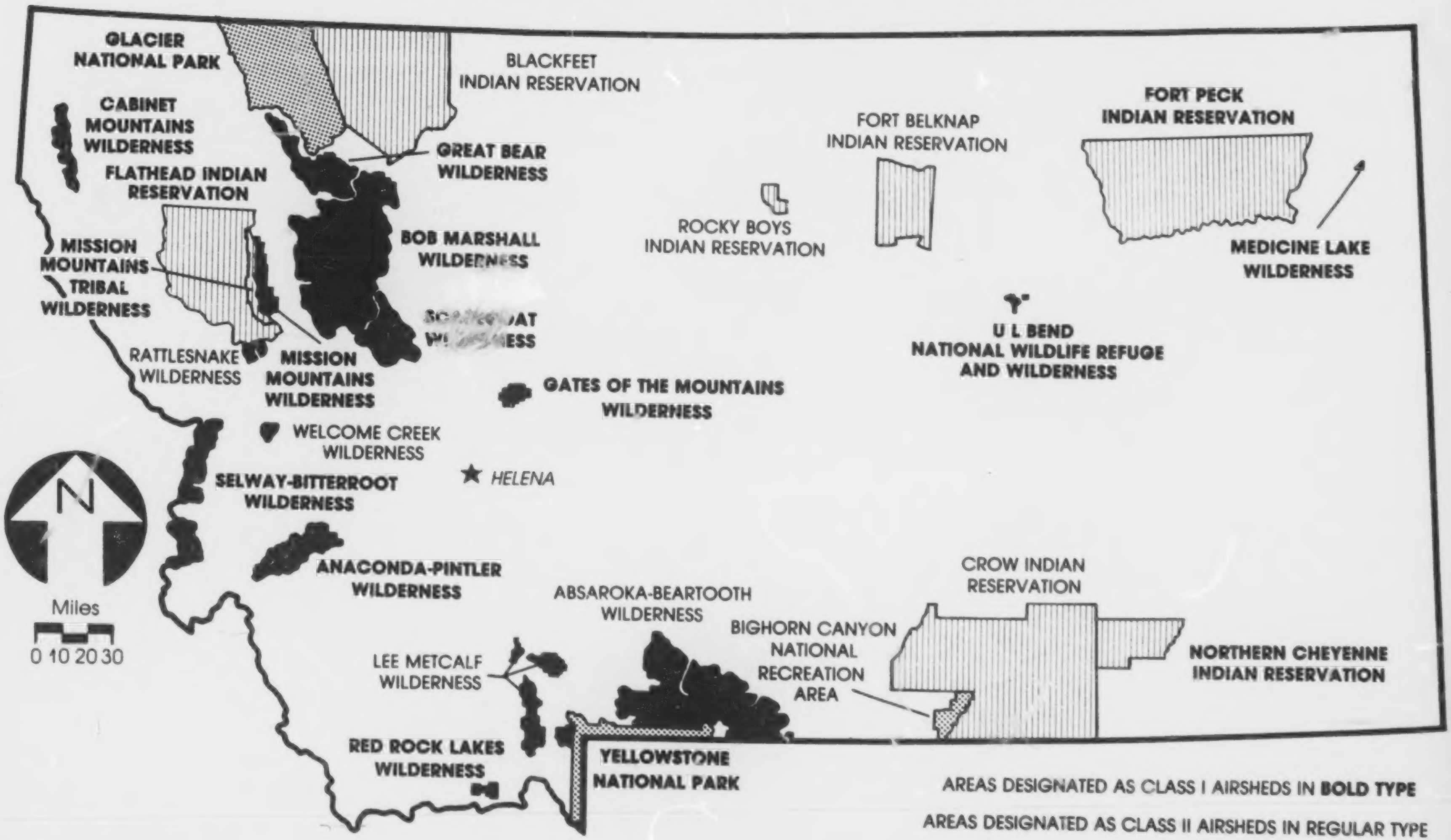
* also in Idaho

USFS - Forest Service, U.S. Department of Agriculture
BLM - Bureau of Land Management, U.S. Department of Interior
FWS - Fish and Wildlife Service, U.S. Department of Interior

SOURCES: Montana Wilderness Association, Helena, & the Wilderness Society, Wilderness Lands in the United States, 1984.

## FIGURE XVII-2

## NATIONAL PARKS, WILDERNESS AREAS AND INDIAN RESERVATIONS IN MONTANA


**GLACIER NATIONAL PARK**
BLACKFEET INDIAN RESERVATION
**CABINET MOUNTAINS WILDERNESS**
**GREAT BEAR WILDERNESS**
**FLATHEAD INDIAN RESERVATION**
**BOB MARSHALL WILDERNESS**
**MISSION MOUNTAINS TRIBAL WILDERNESS**
**SCAPEGOAT WILDERNESS**
RATTLESNAKE WILDERNESS
**MISSION MOUNTAINS WILDERNESS**
**GATES OF THE MOUNTAINS WILDERNESS**
WELCOME CREEK WILDERNESS
HELENA
**SELWAY-BITTERROOT WILDERNESS**
N
**ANACONDA-PINTLER WILDERNESS**
Miles
0 10 20 30
ABSAROKA-BEARTOOTH WILDERNESS
LEE METCALF WILDERNESS
**RED ROCK LAKES WILDERNESS**
**YELLOWSTONE NATIONAL PARK**
BIGHORN CANYON NATIONAL RECREATION AREA
CROW INDIAN RESERVATION
**NORTHERN CHEYENNE INDIAN RESERVATION**
ROCKY BOYS INDIAN RESERVATION
FORT BELKNAP INDIAN RESERVATION
**U L BEND NATIONAL WILDLIFE REFUGE AND WILDERNESS**
**FORT PECK INDIAN RESERVATION**
**MEDICINE LAKE WILDERNESS**

AREAS DESIGNATED AS CLASS I AIRSHEDS IN **BOLD TYPE**

AREAS DESIGNATED AS CLASS II AIRSHEDS IN REGULAR TYPE

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# CHAPTER XVIII

# AIR AND WATER

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## TABLE XVIII - 1

## AIR QUALITY

## PREVENTION OF SIGNIFICANT DETERIORATION (PSD) REGULATIONS

PSD STANDARDS:

Class I: An area where almost any measurable change in air quality is significant. National parks and wildernesses are Class I areas. Any state or Indian governing body may petition to redesignate its area from Class II to either Class I or III.

Class II: An area where air pollution standards will allow for moderate, well-controlled growth.

Class III: An area with an existing significant air quality problem equal to about one-half of the air quality standards.

MONTANA PSD CLASS I AREAS:

1. Glacier National Park
2. Cabinet Mountain Wilderness
3. Flathead Reservation - Confederated Salish & Kootenai Tribes
4. Mission Mountain Wilderness
5. Bob Marshall Wilderness
6. Lincoln Scapegoat Wilderness
7. Selway Bitterroot Wilderness
8. Anaconda Pintlar Wilderness
9. Gates of the Mountains Wilderness
10. Red Rock Lakes National Wildlife Refuge
11. Yellowstone National Park
12. U L Bend Wilderness Area
13. Northern Cheyenne Indian Reservation - Northern Cheyenne Tribe
14. Medicine Lake National Wildlife Refuge
15. Fort Peck Indian Reservation - Assiniboine & Sioux Tribes

TABLE XVIII - 1
(cont.)

PSD-ALLOWABLE INCREMENTS (Micrograms/Cubic Meter):

| Item | I | II | III | Not to Exceed |
|---|---|---|---|---|
| Particulates: | | | | |
| Annual Geo. Mean | 5 | 19 | 37 | 75 |
| Maximum 24-Hr. | 10 | 37 | 75 | 150 |
| Sulfur Dioxide: | | | | |
| Annual Arith. Mean | 2 | 20 | 40 | 80 |
| Maximum 24-Hr. | 5 | 91 | 182 | 365 |
| Maximum 3-Hr. | 25 | 512 | 700 | 1,300 |

NOTE: In general, Montana has adopted federal standards for the protection of Class I areas and has authority over Class I areas except for Indian reservations, where there is tribal and U.S. Environmental Protection Agency authority. The state would have authority, however, over actions outside a reservation that would impact a reservation. Wilderness areas established prior to 1978 are Class I. Others are Class II.

SOURCES: Montana Environmental Quality Council, Annual Report, December 31, 1983, p. 8, and Air Quality Bureau, Environmental Sciences Division, Montana Dept. of Health & Environmental Sciences, personal communication and verification of data above, October 26, 1984.

SA 335

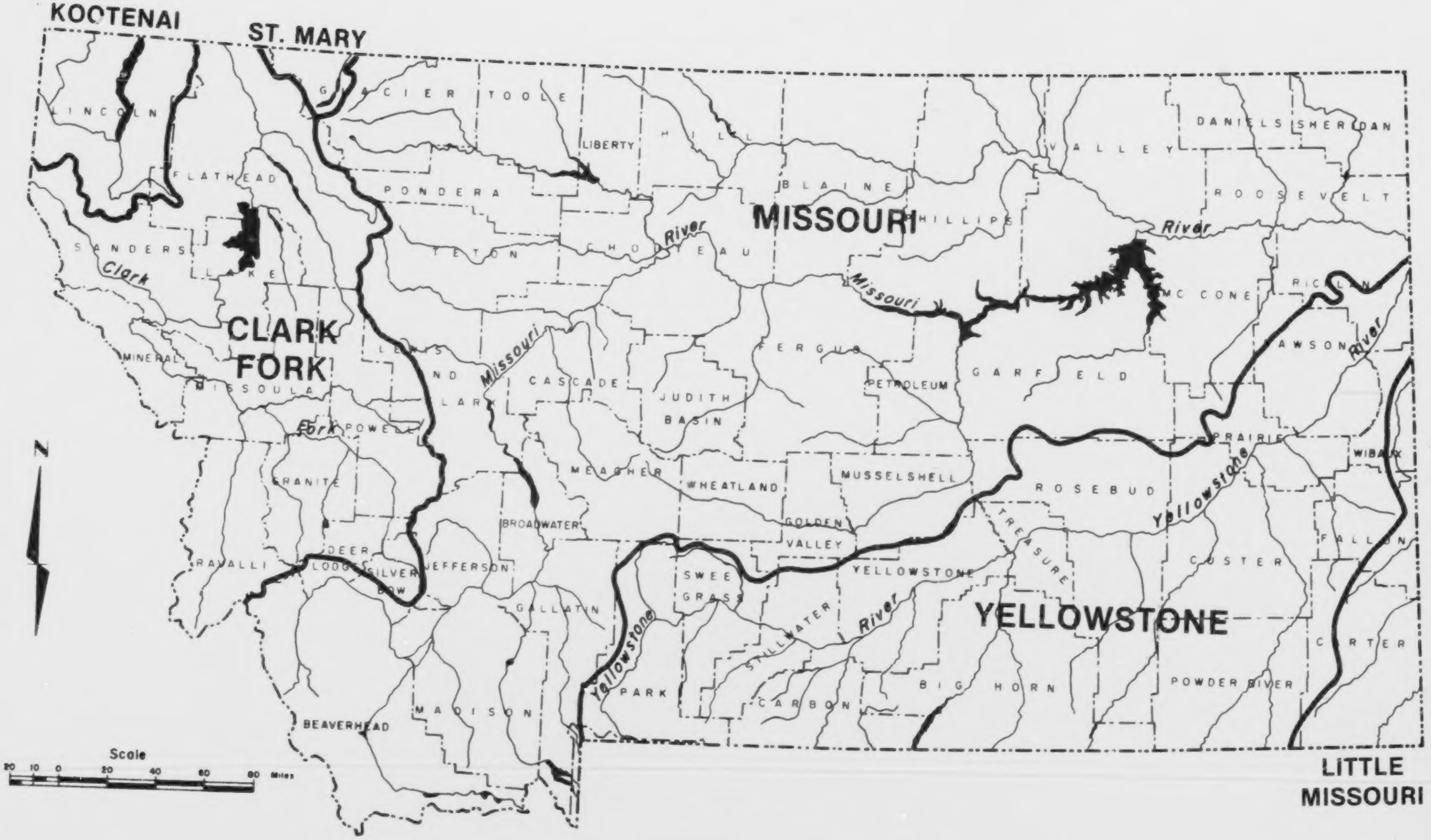
KOOTENAI
ST. MARY
MISSOURI
CLARK FORK
YELLOWSTONE
LITTLE MISSOURI
LINCOLN
GLACIER
TOOLE
LIBERTY
HILL
BLAINE
PHILLIPS
VALLEY
DANIELS
SHERIDAN
ROOSEVELT
FLATHEAD
PONDERA
TETON
CHOUTEAU
SANDERS
LAKE
MINERAL
MISSOULA
LEWIS AND CLARK
POWELL
CASCADE
JUDITH BASIN
FERGUS
PETROLEUM
GARFIELD
MC CONE
RICHLAND
DAWSON
PRAIRIE
WIBAUX
GRANITE
MEAGHER
WHEATLAND
MUSSELSHELL
ROSEBUD
BROADWATER
GOLDEN VALLEY
TREASURE
FALLON
RAVALLI
DEER LODGE
SILVER BOW
JEFFERSON
SWEET GRASS
YELLOWSTONE
CUSTER
GALLATIN
STILLWATER
CARTER
PARK
CARBON
BIG HORN
POWDER RIVER
BEAVERHEAD
MADISON
Clark Fork
Missouri River
Yellowstone River
N
Scale
20 10 0 20 40 60 80 Miles

FIGURE XVIII-1
MONTANA MAJOR RIVERS & RIVER BASINS

# CHAPTER XIX

# ENERGY RESOURCES

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| 7 | CRUDE OIL PRODUCTION: 1943-82 | 363 |

## TABLE XIX - 1

## ENERGY RESERVES & PRODUCTION: 1980

| Item | Montana | Idaho | Wyoming | United States |
|---|---|---|---|---|
| Reserves: | | | | |
| Coal (mill. short tons) | 120,428 | 4 | 69,924 | 472,714 |
| Crude Oil (mill. barrels) | 179 | 0 | 1,038 | 31,335 |
| Natural Gas (bill. cu.ft.) | 1,308 | 0 | 9,413 | 206,259 |
| Uranium (thou. short tons) | < 16 | < 16 | 142.9 | 470 |
| Percent of U.S.: | | | | |
| Coal | 25.5% | 0 | 14.8% | (X) |
| Crude Oil | 0.6% | 0 | 3.3% | (X) |
| Natural Gas | 0.6% | 0 | 4.6% | (X) |
| Uranium | < 3.4% | < 3.4% | 30.4% | (X) |
| Production Value: (millions) | | | | |
| Coal | $ 315 | 0 | $ 1,001 | $ 20,355 |
| Crude Oil | 658 | 0 | 2,700 | 65,722 |
| Natural Gas | 75 | 0 | 786 | 31,866 |
| Uranium | 0 | 0 | 314 | 1,136 |
| Percent of U.S.: | | | | |
| Coal | 1.5% | 0 | 4.9% | (X) |
| Crude Oil | 1.0% | 0 | 4.1% | (X) |
| Natural Gas | 0.2% | 0 | 2.5% | (X) |
| Uranium | 0 | 0 | 27.6% | (X) |
| Consumption: | | | | |
| Trillion Btu's | 366 | 355 | 396 | 75,944 |
| Percent of U.S. | 0.5% | 0.5% | 0.5% | |

< - less than

(X) - not applicable

SOURCE: U.S. Dept. of Energy, State Energy Overview, September 1982

## TABLE XIX - 2

## PRODUCTION OF ENERGY BY TYPE OF FUEL: 1960-83
(physical units)

| Year | Subbituminous Coal (thou. tons) | Lignite Coal (thou. tons) | (Dry) Natural Gas (million cu.ft.) | Crude Oil (thou. bbls) | Hydroelectric Power (mill. kWh) | Wood & Waste* (mill. kWh) |
|---|---|---|---|---|---|---|
| 1960 | 113.000 | 200.000 | 35,381 | 30,240 | 5,801 | (NA) |
| 1961 | 97.000 | 274.000 | 34,884 | 30,906 | 6,499 | 0 |
| 1962 | 78.000 | 304.000 | 28,973 | 31,648 | 6,410 | 0 |
| 1963 | 53.000 | 290.000 | 27,113 | 30,870 | 6,011 | 0 |
| 1964 | 46.000 | 300.000 | 25,234 | 30,647 | 6,821 | 31 |
| 1965 | 63.000 | 301.000 | 27,873 | 32,778 | 8,389 | 37 |
| 1966 | 91.000 | 328.000 | 32,414 | 35,380 | 7,940 | 38 |
| 1967 | 65.000 | 300.000 | 31,619 | 34,959 | 8,703 | 56 |
| 1968 | 189.000 | 330.000 | 31,917 | 48,460 | 8,925 | 74 |
| 1969 | 722.000 | 308.000 | 41,229 | 43,954 | 9,447 | 61 |
| 1970 | 3,124.000 | 323.000 | 37,445 | 37,879 | 8,745 | 73 |
| 1971 | 6,737.000 | 327.000 | 38,137 | 34,599 | 9,595 | 60 |
| 1972 | 7,899.000 | 322.000 | 35,606 | 33,904 | 9,444 | 50 |
| 1973 | 10,411.000 | 314.000 | 58,896 | 34,620 | 7,517 | 48 |
| 1974 | 13,775.000 | 331.000 | 51,401 | 34,554 | 9,726 | 16 |
| 1975 | 21,620.000 | 520.000 | 44,546 | 32,844 | 9,560 | 14 |
| 1976 | 25,919.000 | 312.000 | 45,098 | 32,814 | 12,406 | 37 |
| 1977 | 27,091.013 | 302.426 | 48,181 | 32,680 | 8,460 | 46 |
| 1978 | 26,390.466 | 288.708 | 47,140 | 30,467 | 11,708 | 52 |
| 1979 | 32,148.549 | 305.143 | 53,888 | 29,957 | 10,344 | 52 |
| 1980 | 29,675.034 | 305.578 | 53,802 | 29,584 | 9,966 | 17 |
| 1981 | 33,127.167 | 204.492 | 50,073 | 30,813 | 11,324 | 34 |
| 1982 | 27,666.745 | 177.556 | 50,932 | 30,917 | 10,920 | 28 |
| 1983 | 28,453.741 | 206.543 | 52,426 | 29,665 | 11,561 | 39 |

* Used to generate electricity.

NOTE: Because data on some fuels are not available, total production of energy may be slightly understated.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 4; Coal: U.S. Bureau of Mines (1960-76); Montana Energy Office (1977-83); and U.S. Dept. of Energy, Electric Power Annual, 1983.

## TABLE XIX - 3

## PRODUCTION OF ENERGY BY TYPE OF FUEL: 1960-83
(trillion Btu)

| Year | Subbitum. Coal | Lignite Coal | Coal Subtotal | (Dry) Natural Gas | Crude Oil | Hydroelec. Power | Wood & Waste* | Total |
|---|---|---|---|---|---|---|---|---|
| 1960 | 1.978 | 2.600 | 4,578 | 35.381 | 169.646 | 19.793 | (NA) | 229.389 |
| 1961 | 1.698 | 3.562 | 5.260 | 34.884 | 173.383 | 22.174 | 0 | 235.701 |
| 1962 | 1.365 | 3.952 | 5.317 | 28.973 | 177.545 | 21.871 | 0 | 233.706 |
| 1963 | 0.928 | 3.770 | 4.698 | 27.113 | 173.181 | 20.510 | 0 | 225.502 |
| 1964 | 0.805 | 3.900 | 4.705 | 25.234 | 171.930 | 23.273 | 0.106 | 225.248 |
| 1965 | 1.102 | 3.913 | 5.015 | 27.873 | 183.884 | 28.623 | 0.126 | 245.521 |
| 1966 | 1.592 | 4.264 | 5.856 | 32.414 | 198.482 | 27.091 | 0.130 | 263.973 |
| 1967 | 1.138 | 3.900 | 5,038 | 31.619 | 196.120 | 26.695 | 0.191 | 262.663 |
| 1968 | 3.308 | 4.290 | 7.598 | 31.917 | 271.861 | 30.452 | 0.252 | 342.080 |
| 1969 | 12.635 | 4.004 | 16.639 | 41.229 | 246.582 | 32.233 | 0.208 | 336.891 |
| 1970 | 54.670 | 4.199 | 58.869 | 37.445 | 212.501 | 29.838 | 0.249 | 338.902 |
| 1971 | 117.898 | 4.251 | 122.149 | 38.137 | 194.100 | 32.738 | 0.205 | 387.329 |
| 1972 | 138.232 | 4.186 | 142.418 | 35.606 | 190.201 | 32.223 | 0.171 | 400.619 |
| 1973 | 182.192 | 4.082 | 186.274 | 58.896 | 194.218 | 25.648 | 0.164 | 465.200 |
| 1974 | 241.062 | 4.303 | 245.365 | 51.401 | 193.848 | 33.185 | 0.546 | 524.345 |
| 1975 | 378.350 | 6.760 | 385.110 | 44.546 | 184.255 | 32.619 | 0.478 | 647.008 |
| 1976 | 453.582 | 4.056 | 457.638 | 45.098 | 184.086 | 42.329 | 0.126 | 729.277 |
| 1977 | 474.093 | 3.932 | 478.025 | 48.181 | 183.335 | 28.866 | 0.157 | 738.564 |
| 1978 | 461.833 | 3.753 | 465.586 | 47.140 | 170.920 | 39.948 | 0.177 | 723.771 |
| 1979 | 562.600 | 3.967 | 566.567 | 53.888 | 168.059 | 35.294 | 0.177 | 823.985 |
| 1980 | 519.313 | 3.972 | 523.286 | 53.802 | 165.966 | 34.004 | 0.058 | 777.116 |
| 1981 | 579.725 | 2.658 | 582.384 | 50.073 | 172.861 | 38.637 | 0.116 | 844.071 |
| 1982 | 484.168 | 2.308 | 486.476 | 50.932 | 173.444 | 37.259 | 0.096 | 748.207 |
| 1983 | 497.940 | 2.685 | 500.626 | 52.426 | 166.421 | 39.446 | 0.133 | 759.052 |

* Used to generate electricity.

NOTE: This table gives the Btu equivalents of the physical units shown in the preceding table.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 5; and U.S. Dept. of Energy, Electric Power Annual, 1983.

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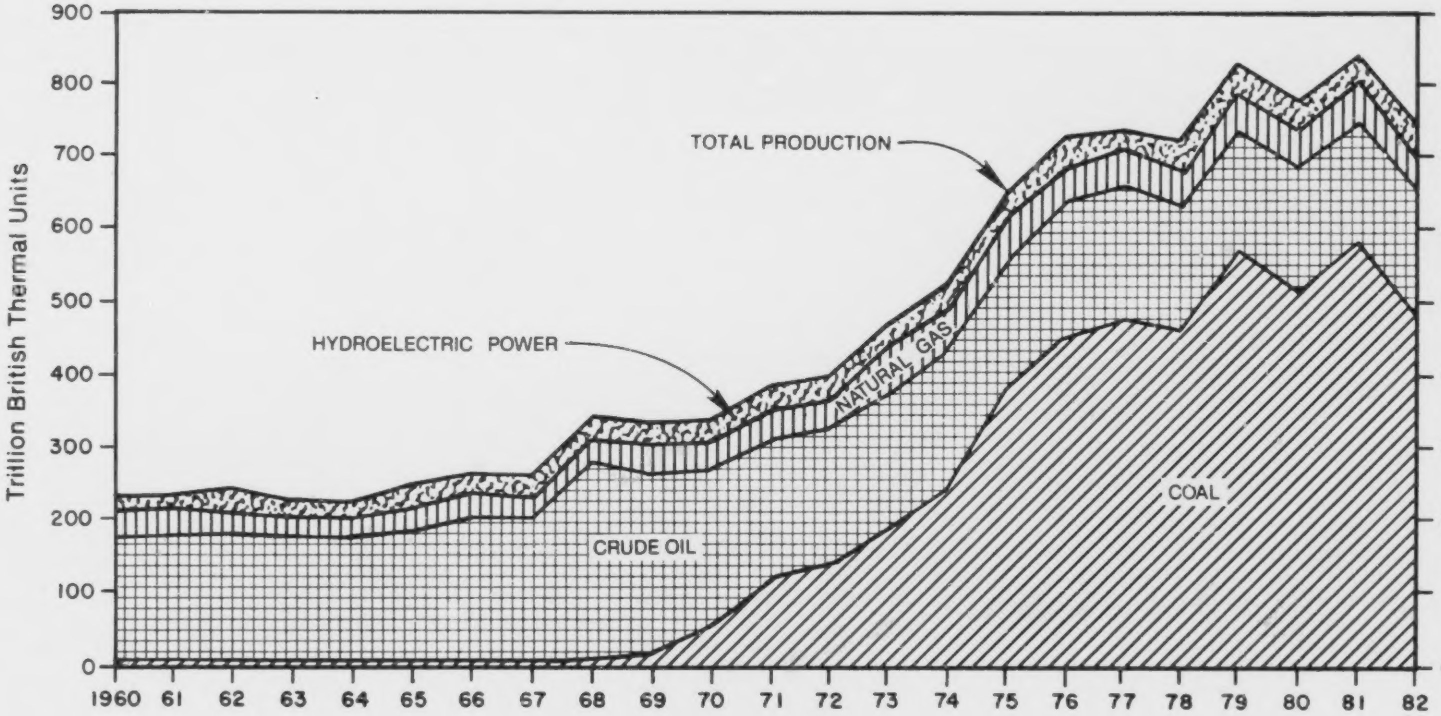

**FIGURE XIX-1**

**PRODUCTION OF ENERGY BY TYPE OF FUEL, 1960-82**

NOTE: Wood and waste products used to generate electricity at electric utilities are not shown because their contribution is negligible.

SOURCE: Montana Department of Natural Resources and Conservation, Montana Historical Energy Statistics, 1984.

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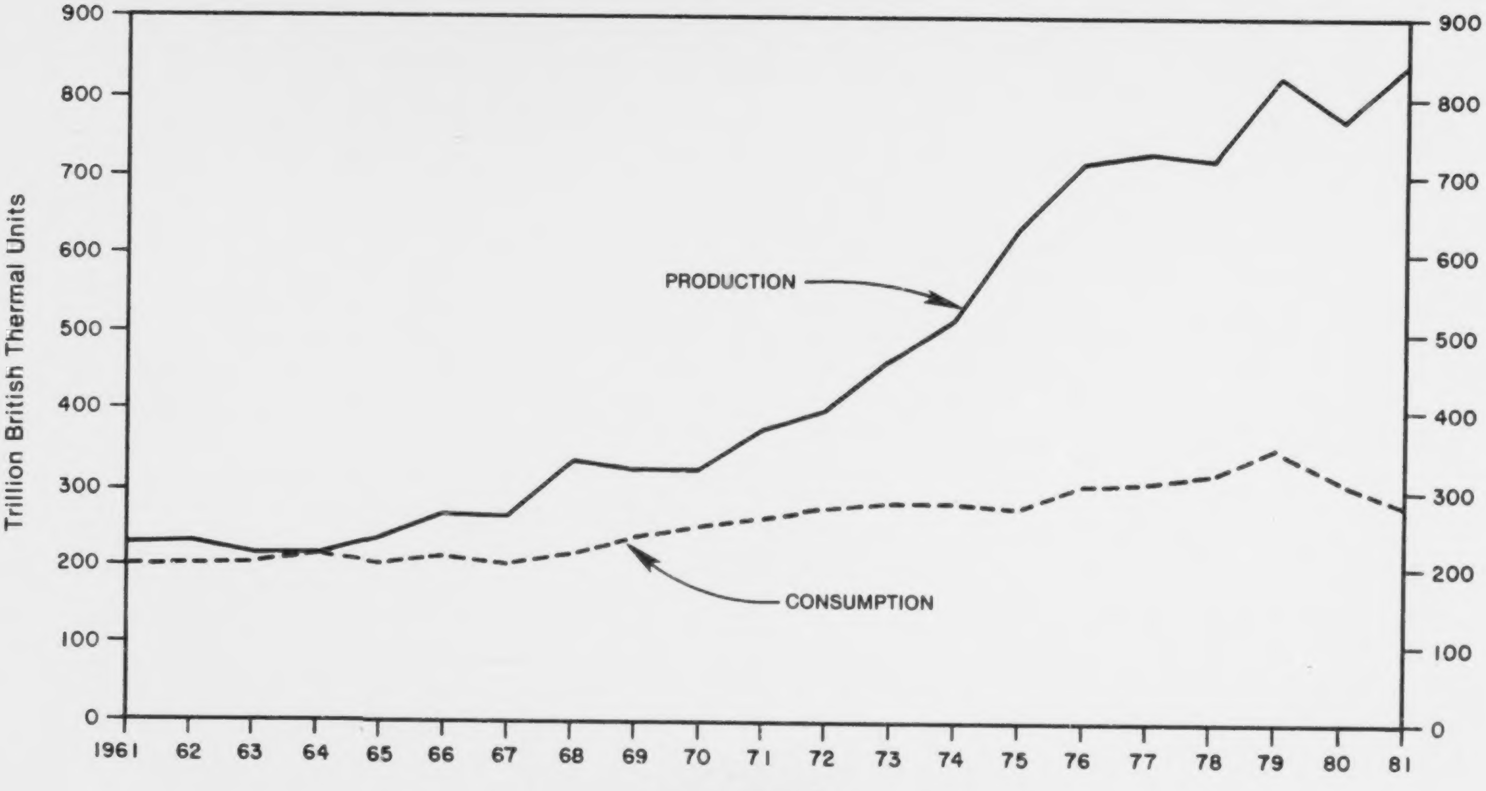

**FIGURE XIX-2**

**PRODUCTION AND CONSUMPTION OF ENERGY, 1961-81**

SOURCE: Montana Department of Natural Resources and Conservation, Montana Historical Energy Statistics, 1984.

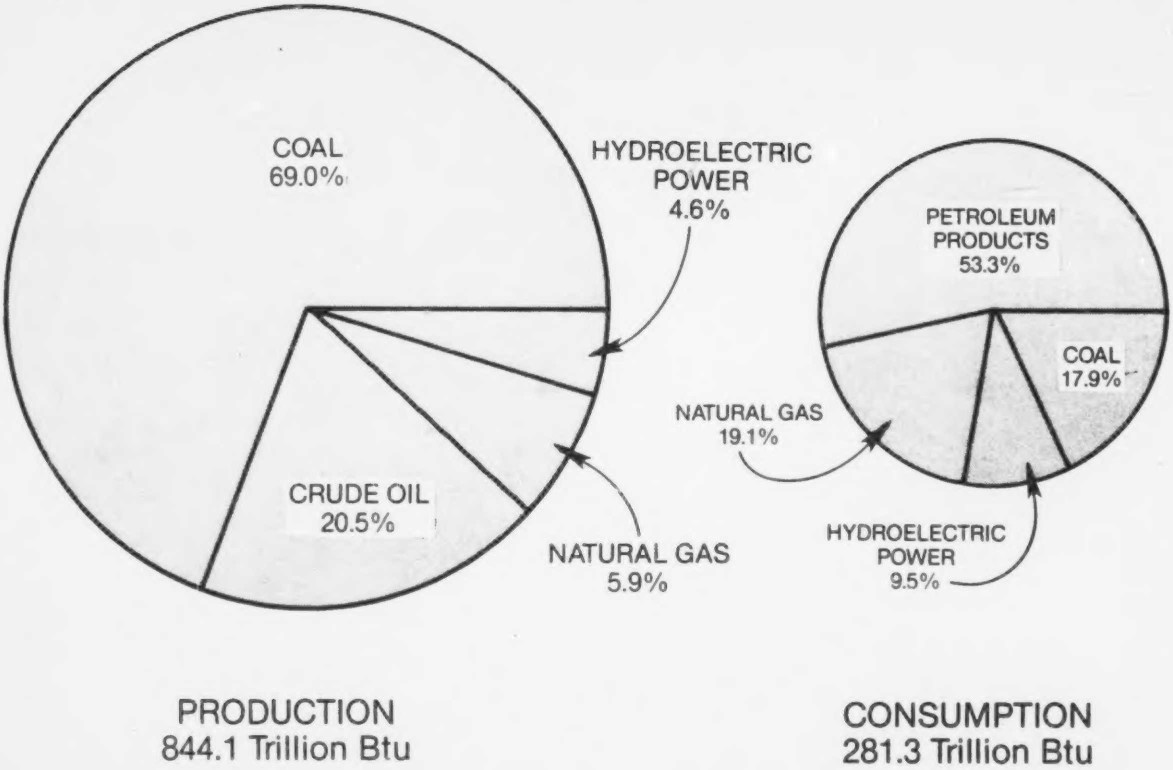

**FIGURE XIX-3**

**PRODUCTION AND CONSUMPTION OF ENERGY, 1981**

NOTE: Fuels with negligible contributions to total production or consumption are not shown.

**SOURCE: Montana Department of Natural Resources and Conservation, Montana Historical Energy Statistics, 1984.**

## TABLE XIX - 4

## MONTANA'S CONSUMPTION OF ENERGY BY TYPE OF FUEL: 1960-81
(physical units)

| | | | | | DNRC | | DOE | |
|---|---|---|---|---|---|---|---|---|
| Year | Coal (thousand short tons) | Natural Gas (Dry) (billion cubic feet) | Petroleum (thousand barrels) | Wood & Waste* (million kWH) | Estimated Instate Hydroelectric Power (million kWh) | Estimated Net Interstate Sales of Thermal Electric Power Generation (million kWh) | Hydroelectric Power (million kWh) | Net Interstate Sales of Electricity** (million kWh) |
| 1960 | 253 | 56 | 18,530 | 0 | 4,716 | (NA) | 5,800 | -3,143 |
| 1961 | 335 | 59 | 20,134 | 0 | 4,816 | 31 | 6,498 | -5,247 |
| 1962 | 373 | 63 | 20,624 | 0 | 4,735 | 0 | 6,409 | -5,252 |
| 1963 | 356 | 67 | 20,649 | 0 | 4,934 | 110 | 6,011 | -3,264 |
| 1964 | 380 | 69 | 21,406 | 31 | 5,433 | 205 | 6,819 | -4,144 |
| 1965 | 368 | 71 | 18,493 | 37 | 6,028 | 354 | 8,388 | -6,955 |
| 1966 | 390 | 72 | 19,966 | 39 | 6,743 | 352 | 7,939 | -3,201 |
| 1967 | 380 | 65 | 18,907 | 56 | 6,642 | 528 | 8,704 | -5,800 |
| 1968 | 449 | 63 | 21,031 | 74 | 7,310 | 754 | 8,924 | -4,142 |
| 1969 | 619 | 78 | 21,529 | 61 | 8,289 | 895 | 9,448 | -2,573 |
| 1970 | 762 | 88 | 21,209 | 73 | 7,963 | 915 | 8,744 | -1,220 |
| 1971 | 730 | 88 | 22,678 | 61 | 8,305 | 989 | 9,593 | -2,563 |
| 1972 | 828 | 84 | 24,816 | 51 | 9,022 | 1,116 | 9,443 | -2,362 |
| 1973 | 950 | 90 | 26,454 | 48 | 6,907 | 1,278 | 7,518 | -256 |
| 1974 | 923 | 80 | 27,334 | 16 | 8,205 | 1,401 | 9,723 | -2,518 |
| 1975 | 1,114 | 80 | 26,765 | 14 | 7,279 | 1,224 | 10,164 | -6,007 |
| 1976 | 2,496 | 74 | 29,825 | 37 | 7,501 | -1,383 | 12,400 | -16,009 |
| 1977 | 3,381 | 71 | 28,966 | 46 | 7,009 | -3,808 | 8,458 | -8,381 |
| 1978 | 3,394 | 73 | 30,516 | 52 | 7,875 | -3,808 | 11,706 | -14,767 |
| 1979 | 3,686 | 70 | 34,723 | 52 | 7,815 | -3,816 | 10,342 | -11,932 |
| 1980 | 3,549 | 61 | 31,126 | 17 | 7,525 | -4,181 | 9,963 | -11,313 |
| 1981 | 3,615 | 52 | 26,488 | 34 | 7,859 | -4,017 | 11,321 | -15,024 |

*
** Consumed at utilities to produce electricity
Net interstate sales of electricity is the difference between the amounts of energy in the electricity sold within a state (including associated losses) and the energy input at the electric utilities within the state. The net interstate sales, therefore, include associated electrical energy losses. A positive number indicates that more electricity (including associated losses) came into the state than went out of the state during the year. Conversely, a negative number indicates that more electricity (including associated losses) went out of the state than came into the state.

NOTE: Does not include wood consumed by the nonutility sectors. Also excludes small quantities of other energy sources for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors, wind energy and geothermal, biomass, and waste energy other than that consumed at the electric utilities.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 6.

# TABLE XIX - 5

## MONTANA'S CONSUMPTION OF ENERGY BY TYPE OF FUEL: 1960-81
(trillion Btu)

| | | | | DNRC | | | DOE | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Year | Natural Gas (Dry) | Wood & Waste* | Petroleum | Estimated Instate Coal** | Estimated Instate Hydroelectric Power | Total | Coal | Hydroelectric Power | Net Interstate Sales of Electricity*** | Total |
| 1960 | 57.6 | 0.0 | 104.1 | (NA) | 16.1 | (NA) | 4.3 | 62.4 | -10.7 | 217.7 |
| 1961 | 61.3 | 0.0 | 113.3 | 5.5 | 16.4 | 196.5 | 5.4 | 69.2 | -17.9 | 231.3 |
| 1962 | 65.7 | 0.0 | 116.9 | 6.0 | 16.2 | 204.8 | 6.0 | 67.7 | -17.9 | 238.4 |
| 1963 | 68.6 | 0.0 | 117.2 | 6.1 | 16.8 | 208.7 | 5.7 | 63.0 | -11.1 | 243.4 |
| 1964 | 71.6 | 0.3 | 121.5 | 6.9 | 18.5 | 218.8 | 6.2 | 71.3 | -14.1 | 256.8 |
| 1965 | 73.0 | 0.4 | 103.2 | 7.0 | 20.6 | 204.2 | 5.8 | 87.7 | -23.7 | 246.4 |
| 1966 | 74.4 | 0.4 | 111.3 | 7.3 | 23.0 | 216.4 | 6.1 | 82.7 | -10.9 | 264.0 |
| 1967 | 67.1 | 0.6 | 103.8 | 7.5 | 22.7 | 201.7 | 5.7 | 90.8 | -19.8 | 248.3 |
| 1968 | 64.8 | 0.8 | 116.2 | 9.6 | 24.9 | 216.3 | 7.0 | 92.8 | -14.1 | 267.4 |
| 1969 | 80.7 | 0.6 | 119.2 | 13.0 | 28.3 | 241.8 | 9.9 | 98.7 | -8.8 | 300.3 |
| 1970 | 90.5 | 0.8 | 117.9 | 15.3 | 27.2 | 251.7 | 12.2 | 91.8 | -4.2 | 309.0 |
| 1971 | 91.0 | 0.6 | 126.2 | 15.2 | 28.3 | 261.3 | 11.8 | 100.5 | -8.7 | 321.4 |
| 1972 | 86.6 | 0.5 | 138.1 | 17.3 | 30.8 | 273.3 | 13.5 | 98.0 | -8.1 | 328.7 |
| 1973 | 92.0 | 0.5 | 147.7 | 20.0 | 23.6 | 283.8 | 15.6 | 78.1 | -0.9 | 333.1 |
| 1974 | 81.8 | 0.2 | 153.6 | 19.9 | 28.0 | 283.5 | 15.1 | 101.5 | -8.6 | 343.6 |
| 1975 | 81.1 | 0.1 | 150.2 | 23.0 | 24.8 | 279.2 | 18.8 | 105.8 | -20.5 | 335.5 |
| 1976 | 75.8 | 0.4 | 168.1 | 38.1 | 25.6 | 308.0 | 42.8 | 128.6 | -54.6 | 361.1 |
| 1977 | 72.3 | 0.5 | 163.3 | 46.4 | 23.9 | 306.4 | 58.9 | 88.3 | -28.6 | 354.7 |
| 1978 | 73.8 | 0.5 | 170.6 | 46.1 | 26.9 | 317.9 | 59.1 | 121.3 | -50.4 | 375.0 |
| 1979 | 71.1 | 0.5 | 201.0 | 51.7 | 26.7 | 351.0 | 64.7 | 107.1 | -40.7 | 403.7 |
| 1980 | 62.2 | 0.2 | 177.4 | 47.6 | 25.7 | 313.1 | 61.9 | 103.5 | -38.6 | 366.6 |
| 1981 | 53.8 | 0.4 | 150.0 | 50.3 | 26.8 | 281.3 | 64.0 | 117.6 | -51.3 | 334.4 |

* Consumed at utilities to produce electricity

** Net interstate sales of thermal electric power and the associated generation losses have been subtracted.

*** Net interstate sales of electricity is the difference between the amounts of energy in the electricity sold within a state (including associated losses) and the energy input at the electric utilities within the state. The net interstate sales, therefore, include associated electrical energy losses. A positive number indicates that more electricity (including associated losses) came into the state than went out of the state during the year. Conversely, a negative number indicates that more electricity (including associated losses) went out of the state than came into the state.

NOTE: This table gives the Btu equivalent of the physical units shown in the preceding table. Does not include wood consumed by the nonutility sectors. Also excludes small quantities of other energy sources for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors, wind energy and geothermal, biomass, and waste energy other than that consumed at the electric utilities.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 7. Based on U.S. Dept. of Energy, Energy Information Administration, State Energy Data Report: 1960 through 1981.

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## TABLE XIX - 6

## CONSUMPTION OF ENERGY: 1980
(trillion Btu)

| Item | United States | Montana | Idaho | Wyoming |
|---|---|---|---|---|
| Sources: | | | | |
| Total Energy | 75,944 | 366 | 355 | 396 |
| Coal | 15,492 | 62 | 13 | 282 |
| Natural Gas | 20,391 | 62 | 50 | 71 |
| Petroleum | 34,204 | 177 | 131 | 199 |
| Nuclear | 2,672 | 0 | 0 | 0 |
| Hydroelectric | 3,107 | 103 | 98 | 11 |
| Other | 114 | (N) | 0 | 0 |
| Electricity Exchanges* | | -39 | 62 | -166 |
| End-Use Sectors: | | | | |
| Residential | 15,272 | 61 | 72 | 32 |
| Commercial | 10,622 | 43 | 60 | 24 |
| Industrial | 30,368 | 173 | 140 | 253 |
| Transportation | 19,682 | 89 | 83 | 88 |

(N) - small, non-zero value

* net interstate sales of electricity, including losses

NOTE: Montana's Dept. of Natural Resources & Conservation and the U.S. Dept. of Energy arrive at dissimilar consumption figures. For a comparison of these figures, see the preceding table.

SOURCE: U.S. Dept. of Energy, State Energy Data Report: 1960 through 1980, July, 1982, p. xi.

## TABLE XIX - 7

### CONSUMPTION OF ENERGY PER CAPITA: 1980
(million Btu)

| Item | United States | Montana | Idaho | Wyoming |
|---|---|---|---|---|
| Resident Population (thousands) | 227,158 | 787 | 944 | 471 |
| Total Energy | 334 | 465 | 376 | 842 |
| Residential | 67 | 78 | 76 | 67 |
| Commercial | 47 | 54 | 63 | 51 |
| Industrial | 134 | 220 | 148 | 536 |
| Transportation | 87 | 113 | 88 | 187 |

SOURCE: U.S. Dept. of Energy, State Energy Data Report, July 1982.

## TABLE XIX - 8

## ELECTRIC POWER PLANTS IN MONTANA BY PRIMARY FUEL
## JANUARY, 1984

| Owner/Operator | Plant | County | Initial Year of Operation (First Unit) | Generation | | |
|---|---|---|---|---|---|---|
| | | | | Capacity (megawatts) | Critical Water Year (avg. MW) | Median Water Year (avg. MW) |
| **Hydroelectric Plants:** | | | | | | |
| MT Power Co. | Lake Creek | Lincoln | 1916 | 5.0 | 2.3 | 2.8 |
| MT Power Co. | Black Eagle | Cascade | 1927 | 18.0 | 14.0 | 18.0 |
| MT Power Co. | Cochrane | Cascade | 1958 | 50.0 | 22.0 | 34.0 |
| MT Power Co. | Flint Creek | Granite | 1901 | 1.1 | 1.0 | 1.0 |
| MT Power Co. | Hauser Lake | Lewis & Clark | 1907 | 16.5 | 12.0 | 16.0 |
| MT Power Co. | Holter | Lewis & Clark | 1918 | 49.0 | 24.0 | 30.0 |
| MT Power Co. | Kerr | Lake | 1938 | 180.0 | 119.0 | 128.0 |
| MT Power Co. | Milltown | Missoula | 1906 | 3.4 | 2.0 | 2.0 |
| MT Power Co. | Morony | Cascade | 1930 | 47.0 | 25.0 | 36.0 |
| MT Power Co. | Mystic Lake | Stillwater | 1925 | 11.5 | 6.0 | 6.0 |
| MT Power Co. | Rainbow | Cascade | 1910 | 35.0 | 29.0 | 35.0 |
| MT Power Co. | Ryan | Cascade | 1915 | 60.0 | 41.0 | 56.0 |
| MT Power Co. | Thompson Falls | Sanders | 1915 | 40.0 | 35.0 | 34.0 |
| MT Power Co. | Madison | Madison | 1906 | 8.5 | 7.0 | 8.0 |
| Pacific Power & Light Co. | Bigfork | Flathead | 1910 | 4.0 | 3.0 | 3.5 |
| Army Corps of Engineers, N. Pacific Div. | Libby | Lincoln | 1975 | 420.0 | 180.0 | 220.0 |
| Army Corps of Engineers, Missouri River Division | Fort Peck | McCone | 1943 | 185.0 | 83.0 | 119.0 |
| Bureau of Indian Affairs, Flathead Irr. Project | Big Creek | Lake | 1928 | 0.4 | (NA) | (NA) |
| Bureau of Reclamation, Missouri River Division | Canyon Ferry | Lewis & Clark | 1953 | 50.0 | 33.8 | 49.9 |
| Bureau of Reclamation Missouri River Division | Yellowtail | Big Horn | 1966 | 250.0 | 66.1 | 122.8 |
| Bureau of Reclamation, Pacific Northwest Region | Hungry Horse | Flathead | 1952 | 285.0 | 96.0 | 108.0 |
| Washington Water Power Co. | Noxon Rapids | Sanders | 1959 | 396.9 | 147.9 | 198.0 |
| Total Hydroelectric Generation: | | | | 2,116.3 | | |

TABLE XIX - 8
(cont.)

| Owner/Operator | Plant | County | Initial Year of Operation (First Unit) | Generation Capacity (megawatts) | Generation Average (avg. MW) | Fuel |
|---|---|---|---|---|---|---|
| **Fossil Fuel Fired Plants:** | | | | | | |
| MT-Dakota Utilities | Glendive | Dawson | 1926 | 6.7 | | natural gas |
| MT-Dakota Utilities | Glendive | Dawson | 1979 | 41.0 | | natural gas; #2 fuel oil |
| MT-Dakota Utilities | Lewis & Clark | Richland | 1958 | 51.4 | | lignite |
| MT-Dakota Utilities | Miles City | Custer | 1972 | 18.4 | | natural gas |
| MT Power Co. | Frank Bird | Yellowstone | 1951 | 69.0 | 60.0 | oil, natural gas |
| MT Power Co. | J.E. Corette | Yellowstone | 1968 | 173.0 | 139.0 | subbituminous coal |
| MT Power Co. & Puget Sound Power & Light | Colstrip I | Rosebud | 1975 | 358.0 | 270.0 | subbituminous coal |
| MT Power Co. & Puget Sound Power & Light | Colstrip II | Rosebud | 1976 | 358.0 | 270.0 | subbituminous coal |
| MT Power Co. & Puget Sound Power & Light, Portland General Electric, Wash. Water Power, & Pacific Power & Light | Colstrip III | Rosebud | 1984 | 778.0 | (NA) | subbituminous coal |
| Pacific Power & Light | Libby | Lincoln | 1972 | 24.0 | 0.0 | #2 fuel oil |
| Total Fossil Fuel Fired Generation: | | | | 1,877.5 | | |
| **Other Plants:** | | | | | | |
| MT Power Co. | Libby | Lincoln | 1939 | 14.3 | 5.3 | wood & waste products |
| Total Generation for Other Plants: | | | | 14.3 | | |

TOTAL MONTANA (NAMEPLATE) GENERATING CAPACITY: 4,008.1 megawatts

(Unless otherwise specified, capacity denotes installed nameplate capacity.)

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, pp. 14 and 15.

## TABLE XIX - 9

## MONTANA'S NET ELECTRIC ENERGY GENERATION* BY TYPE OF FUEL UNIT: 1950-82

| Year | Total | Hydroelectric | | Coal | | Oil | | Natural Gas | | Wood & Waste | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Million kWh Generated | Million kWH Generated | Percent of State Total | Million kWh Generated | Percent of State Total | Million kWh Generated | Percent of State Total | Million kWh Generated | Percent of State Total | Million kWh Generated | Percent of State Total |
| 1950 | 3,136 | 3,107 | 99 | (NA) | | (NA) | | (NA) | | (NA) | |
| 1951 | 3,304 | 3,259 | 99 | (NA) | | (NA) | | (NA) | | (NA) | |
| 1952 | 3,778 | 3,464 | 92 | (NA) | | (NA) | | (NA) | | (NA) | |
| 1953 | 3,719 | 3,424 | 92 | (NA) | | (NA) | | (NA) | | (NA) | |
| 1954 | 4,274 | 4,246 | 99 | (NA) | | (NA) | | (NA) | | (NA) | |
| 1955 | 4,696 | 4,679 | 99 | (NA) | | (NA) | | (NA) | | (NA) | |
| 1956 | 5,495 | 5,459 | 99 | (NA) | | (NA) | | (NA) | | (NA) | |
| 1957 | 5,215 | 4,969 | 95 | (NA) | | (NA) | | (NA) | | (NA) | |
| 1958 | 4,551 | 4,224 | 93 | (NA) | | (NA) | | (NA) | | (NA) | |
| 1959 | 4,934 | 4,720 | 96 | (NA) | | (NA) | | (NA) | | (NA) | |
| 1960 | 5,992 | 5,801 | 97 | (NA) | | (NA) | | (NA) | | (NA) | |
| 1961 | 6,780 | 6,499 | 96 | 263 | 4 | 0 | 0 | 19 | | 0 | 0 |
| 1962 | 7,051 | 6,410 | 91 | 291 | 4 | 1 | (Z) | 349 | 5 | 0 | 0 |
| 1963 | 6,594 | 6,011 | 91 | 284 | 4 | 0 | 0 | 299 | 5 | 0 | 0 |
| 1964 | 7,360 | 6,821 | 93 | 286 | 4 | 2 | (Z) | 220 | 3 | 31 | (Z) |
| 1965 | 8,882 | 8,389 | 94 | 285 | 3 | 0 | 0 | 171 | 2 | 37 | (Z) |
| 1966 | 8,611 | 7,940 | 92 | 317 | 4 | 43 | (Z) | 273 | 3 | 38 | (Z) |
| 1967 | 9,117 | 8,703 | 95 | 314 | 3 | 3 | (Z) | 41 | (Z) | 56 | 1 |
| 1968 | 9,495 | 8,925 | 94 | 434 | 5 | 10 | (Z) | 52 | (Z) | 74 | 1 |
| 1969 | 10,442 | 9,447 | 90 | 735 | 7 | 52 | (Z) | 147 | 1 | 61 | 1 |
| 1970 | 10,026 | 8,745 | 87 | 966 | 10 | 14 | (Z) | 228 | 2 | 73 | 1 |
| 1971 | 10,653 | 9,595 | 90 | 901 | 8 | 1 | (Z) | 96 | 1 | 60 | 1 |
| 1972 | 10,689 | 9,444 | 88 | 1,079 | 10 | 7 | (Z) | 108 | 1 | 50 | (Z) |
| 1973 | 9,132 | 7,517 | 82 | 1,303 | 14 | 69 | (Z) | 195 | 2 | 48 | 1 |
| 1974 | 11,056 | 9,726 | 88 | 1,210 | 11 | 6 | (Z) | 98 | 1 | 16 | (Z) |
| 1975 | 11,231 | 9,560 | 85 | 1,544 | 14 | 17 | (Z) | 96 | 1 | 14 | (Z) |
| 1976 | 16,091 | 12,402 | 77 | 3,558 | 22 | 27 | (Z) | 67 | (Z) | 37 | (Z) |
| 1977 | 13,473 | 8,460 | 63 | 4,788 | 36 | 92 | 1 | 87 | 1 | 46 | (Z) |
| 1978 | 16,750 | 11,708 | 70 | 4,871 | 29 | 35 | (Z) | 84 | (Z) | 52 | (Z) |
| 1979 | 15,756 | 10,344 | 66 | 5,114 | 32 | 58 | (Z) | 188 | 1 | 52 | (Z) |
| 1980 | 15,496 | 9,966 | 64 | 5,140 | 33 | 22 | (Z) | 351 | 2 | 17 | (Z) |
| 1981 | 16,593 | 11,324 | 68 | 5,047 | 30 | 12 | (Z) | 175 | 1 | 34 | (Z) |
| 1982 | 14,844 | 10,920 | 74 | 3,853 | 26 | 10 | (Z) | 33 | (Z) | 28 | (Z) |

* Gross generation less the electric energy consumed at the generating station.

(Z) - less than or equal to 0.5 percent

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 17. Based on Federal Power commission (1950-76); U.S. Dept. of Energy, Energy Information Administration, Power Production, Fuel Consumption and Installed Capacity Data, annual reports for 1977-80, Electric Power Annual, annual reports for 1981-82.

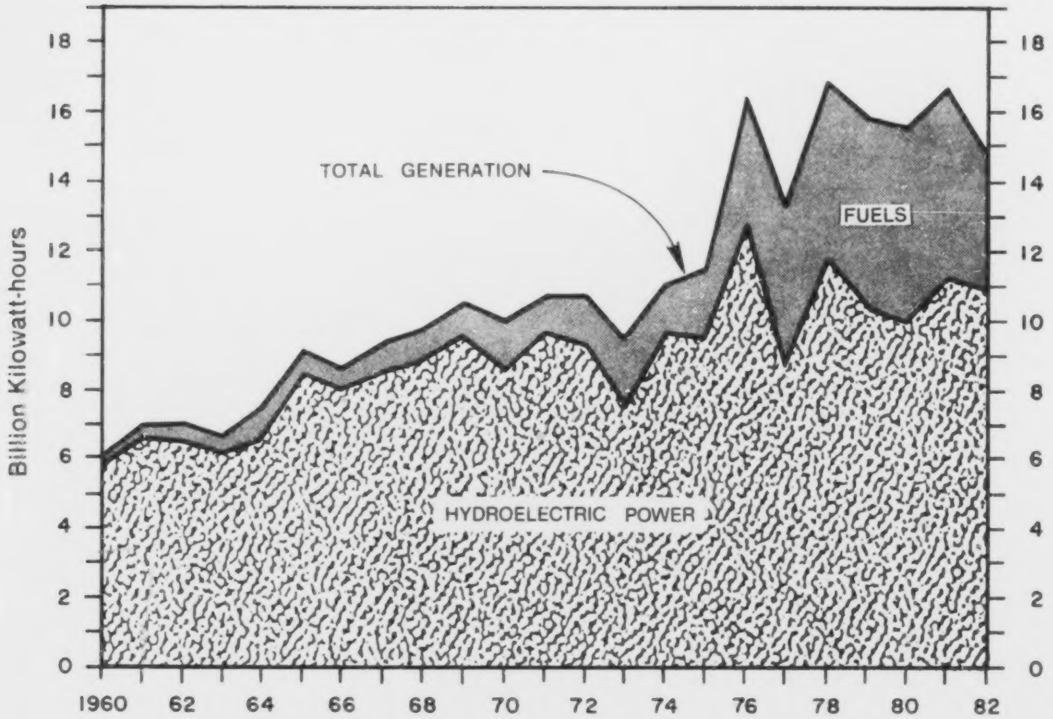

**FIGURE XIX-4**
**ANNUAL GENERATION OF ELECTRICITY, 1960-82**

SOURCE: Montana Department of Natural Resources and Conservation, Montana Historical Energy Statistics, 1984.

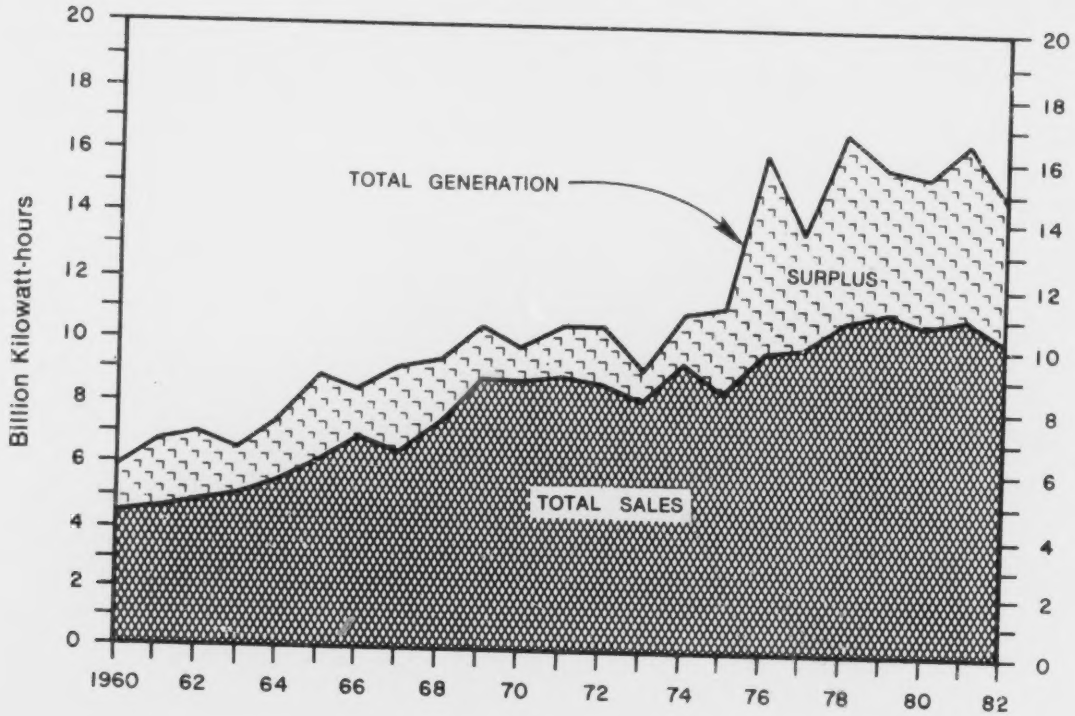

**FIGURE XIX-5**

**ANNUAL GENERATION AND SALES OF ELECTRICITY, 1960-82**

**SOURCE:** Montana Department of Natural Resources and Conservation, Montana Historical Energy Statistics, 1984.

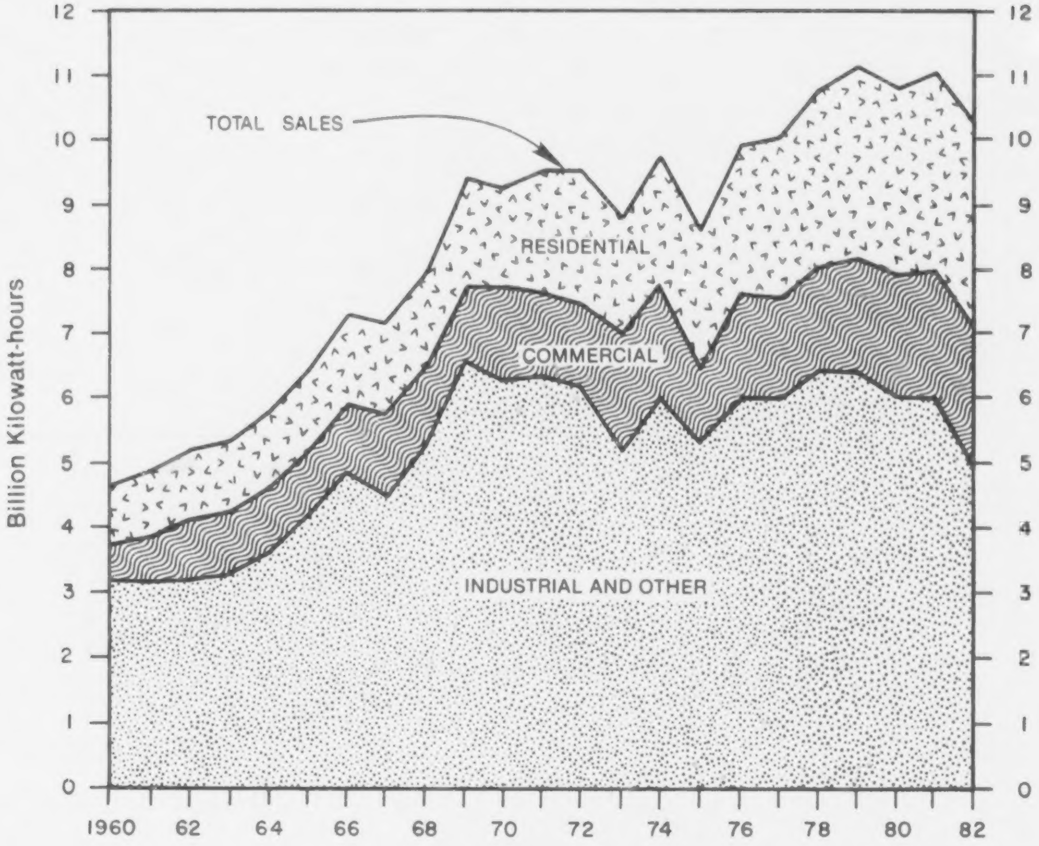

FIGURE XIX-6
ANNUAL SALES OF ELECTRICITY, 1960-82

SOURCE: Montana Department of Natural Resources and Conservation, Montana Historical Energy Statistics, 1984.

## TABLE XIX - 10

## CONSUMPTION OF ENERGY BY THE COMMERCIAL SECTOR
(trillion Btu)

| Year | United States | Montana | Idaho | Wyoming |
|---|---|---|---|---|
| 1960 | 4,751 | 26 | 27 | 9 |
| 1965 | 5,906 | 30 | 31 | 17 |
| 1966 | 6,392 | 30 | 35 | 20 |
| 1967 | 6,950 | 32 | 35 | 22 |
| 1968 | 7,365 | 30 | 38 | 24 |
| 1969 | 7,865 | 34 | 39 | 26 |
| 1970 | 8,366 | 37 | 36 | 25 |
| 1971 | 8,715 | 38 | 43 | 26 |
| 1972 | 9,164 | 40 | 46 | 29 |
| 1973 | 9,525 | 41 | 47 | 26 |
| 1974 | 9,363 | 38 | 49 | 27 |
| 1975 | 9,449 | 44 | 60 | 22 |
| 1976 | 10,019 | 44 | 59 | 22 |
| 1977 | 10,172 | 44 | 63 | 24 |
| 1978 | 10,478 | 47 | 57 | 25 |
| 1979 | 10,617 | 48 | 62 | 27 |
| 1980 | 10,590 | 42 | 59 | 23 |
| 1981 | 10,655 | 43 | 65 | 24 |
| 1982 | 10,863 | 46 | 65 | 34 |

NOTE: End-use sector data include electricity sales & associated energy losses.

SOURCE: U.S. Dept. of Energy, Energy Information Administration, State Energy Data Report, 1984.

## TABLE XIX - 11

## CONSUMPTION OF ENERGY BY THE RESIDENTIAL SECTOR
(trillion Btu)

| Year | United States | Montana | Idaho | Wyoming |
|---|---|---|---|---|
| 1960 | 8,286 | 32 | 29 | 15 |
| 1965 | 10,126 | 39 | 34 | 19 |
| 1966 | 10,666 | 40 | 35 | 20 |
| 1967 | 11,151 | 40 | 42 | 21 |
| 1968 | 11,872 | 42 | 44 | 23 |
| 1969 | 12,726 | 45 | 43 | 27 |
| 1970 | 13,349 | 48 | 45 | 30 |
| 1971 | 13,880 | 51 | 49 | 32 |
| 1972 | 14,527 | 52 | 54 | 36 |
| 1973 | 14,625 | 53 | 56 | 28 |
| 1974 | 14,369 | 51 | 59 | 26 |
| 1975 | 14,457 | 57 | 69 | 27 |
| 1976 | 15,006 | 58 | 71 | 27 |
| 1977 | 15,212 | 58 | 74 | 28 |
| 1978 | 15,621 | 64 | 71 | 33 |
| 1979 | 15,199 | 64 | 75 | 35 |
| 1980 | 15,080 | 60 | 70 | 30 |
| 1981 | 14,621 | 55 | 71 | 32 |
| 1982 | 14,742 | 62 | 74 | 41 |

NOTE: End-use sector data include electricity sales & associated energy losses.

SOURCE: U.S. Dept. of Energy, Energy Information Administration, State Energy Data Report, 1984.

## TABLE XIX - 12

## CONSUMPTION OF ENERGY BY THE TRANSPORTATION SECTOR
(trillion Btu)

| Year | United States | Montana | Idaho | Wyoming |
|---|---|---|---|---|
| 1960 | 10,598 | 57 | 44 | 41 |
| 1965 | 12,424 | 57 | 50 | 44 |
| 1966 | 13,088 | 62 | 54 | 44 |
| 1967 | 13,731 | 57 | 55 | 54 |
| 1968 | 14,839 | 62 | 56 | 54 |
| 1969 | 15,480 | 66 | 61 | 57 |
| 1970 | 16,074 | 68 | 66 | 57 |
| 1971 | 16,702 | 71 | 68 | 61 |
| 1972 | 17,695 | 76 | 73 | 61 |
| 1973 | 18,596 | 84 | 75 | 67 |
| 1974 | 18,113 | 85 | 77 | 69 |
| 1975 | 18,240 | 82 | 79 | 66 |
| 1976 | 19,093 | 88 | 85 | 71 |
| 1977 | 19,808 | 86 | 88 | 76 |
| 1978 | 20,589 | 97 | 93 | 85 |
| 1979 | 20,464 | 92 | 100 | 88 |
| 1980 | 19,695 | 89 | 83 | 88 |
| 1981 | 19,497 | 84 | 77 | 88 |
| 1982 | 19,065 | 81 | 75 | 80 |

NOTE: End-use sector data include electricity sales & associated energy losses.

SOURCE: U.S. Dept. of Energy, Energy Information Administration, State Energy Data Report, 1984.

## TABLE XIX - 13

## CONSUMPTION OF ENERGY BY THE INDUSTRIAL SECTOR
(trillion Btu)

| Year | United States | Montana | Idaho | Wyoming |
|---|---|---|---|---|
| 1960 | 20,105 | 102 | 87 | 70 |
| 1965 | 24,163 | 120 | 119 | 93 |
| 1966 | 25,447 | 132 | 120 | 94 |
| 1967 | 25,674 | 119 | 139 | 108 |
| 1968 | 26,866 | 133 | 155 | 127 |
| 1969 | 28,056 | 155 | 150 | 143 |
| 1970 | 28,575 | 155 | 150 | 142 |
| 1971 | 28,534 | 161 | 153 | 147 |
| 1972 | 29,809 | 161 | 162 | 157 |
| 1973 | 31,446 | 155 | 161 | 156 |
| 1974 | 30,614 | 168 | 170 | 154 |
| 1975 | 28,333 | 153 | 157 | 170 |
| 1976 | 30,160 | 170 | 152 | 190 |
| 1977 | 31,010 | 166 | 145 | 212 |
| 1978 | 31,350 | 165 | 155 | 230 |
| 1979 | 32,550 | 200 | 145 | 250 |
| 1980 | 30,562 | 175 | 137 | 241 |
| 1981 | 29,205 | 151 | 146 | 226 |
| 1982 | 26,084 | 118 | 129 | 226 |

NOTE: U.S. industrial sector numbers include net imports of coal coke which was not allocated to the states.
End-use sector data include electricity sales & associated energy losses.

SOURCE: U.S. Dept. of Energy, Energy Information Administration, State Energy Data Report, 1984.

## TABLE XIX - 14

## YEAR-END PROVED RESERVES* OF CRUDE OIL IN MONTANA
1950 - 1982
(thousand barrels)

| Year | American Gas Association | | U.S. Dept. of Energy | |
|---|---|---|---|---|
| | United States | Montana | United States | Montana |
| 1950 | 25,268,398 | 111,272 | | |
| 1951 | 27,468,031 | 108,418 | | |
| 1952 | 27,960,554 | 156,181 | | |
| 1953 | 28,944,828 | 208,985 | | |
| 1954 | 29,560,746 | 272,394 | | |
| 1955 | 30,012,170 | 298,948 | | |
| 1956 | 30,434,649 | 331,414 | | |
| 1957 | 30,300,405 | 319,991 | | |
| 1958 | 30,535,917 | 337,799 | | |
| 1959 | 31,719,347 | 309,268 | | |
| 1960 | 31,613,211 | 266,687 | | |
| 1961 | 31,758,505 | 250,909 | | |
| 1962 | 31,389,223 | 248,860 | | |
| 1963 | 30,969,990 | 271,253 | | |
| 1964 | 30,990,510 | 251,620 | | |
| 1965 | 31,352,391 | 274,145 | | |
| 1966 | 31,452,127 | 281,608 | | |
| 1967 | 31,376,670 | 307,972 | | |
| 1968 | 30,707,117 | 345,117 | | |
| 1969 | 29,631,862 | 275,765 | | |
| 1970 | 39,001,335 | 241,529 | | |
| 1971 | 38,062,957 | 228,185 | | |
| 1972 | 36,339,408 | 241,248 | | |
| 1973 | 35,299,839 | 219,343 | | |
| 1974 | 34,249,956 | 207,389 | | |
| 1975 | 32,682,127 | 163,968 | | |
| 1976 | 30,942,166 | 152,670 | 33,502,000 | 181,000 |
| 1977 | 29,486,402 | 151,601 | 31,780,000 | 175,000 |
| 1978 | 27,803,760 | 140,466 | 31,355,000 | 158,000 |
| 1979 | 27,051,289 | 136,590 | 29,810,000 | 152,000 |
| 1980 | | | 29,805,000 | 179,000 |
| 1981 | | | 29,426,000 | 186,000 |
| 1982 | | | 27,858,000 | 216,000 |

NOTE: The American Gas Association (AGA) ceased making independent crude oil reserve estimates in 1979. Beginning in 1980, the AGA reported the reserve estimates calculated by DOE. Both DOE and AGA figures for 1976-79 are shown for comparison purposes.

* Proved reserves are the estimated amount of oil that geologic and engineering data indicate is recoverable from known reservoirs under present economic and operating conditions.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 60. Based on American Petroleum Institute (1950-76); American Gas Association, Gas Facts, 1977-79 and U.S. Dept. of Energy, Energy Information Administration, U.S. Crude Oil and Natural Gas Reserves, annual reports for 1977-88 and U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, annual reports for 1979-82.

## TABLE XIX - 15

## ESTIMATES OF CRUDE OIL PROVED RESERVES IN MONTANA
## BY REGION, 1955-83
(thousand barrels)

| As of Jan. 1 of the year | Region | | | | | | Total |
|---|---|---|---|---|---|---|---|
| | North | South Central | Central | South east | North east | Misc. | |
| 1955 | | | | | | | 289,742 |
| 1956 | | | | | | | 333,782 |
| 1957 | | | | | | | 343,411 |
| 1958 | | | | | | | 321,566 |
| 1959 | | | | | | | 325,484* |
| 1960 | | | | | | | 297,993 |
| 1961 | | | | | | | 254,946 |
| 1962 | | | | | | | 334,074 |
| 1963 | | | | | | | 341,225* |
| 1964 | | | | | | | 371,929 |
| 1965 | 147,007 | 69,895 | 29,637 | | 161,504 | | 408,043 |
| 1966 | 144,281 | 61,516 | 38,668 | | 163,101 | | 407,566 |
| 1967 | 137,638 | 56,828 | 39,424 | | 159,470 | | 393,360 |
| 1968 | 128,131 | 53,366 | 37,820 | 64,417 | 168,760 | | 452,494 |
| 1969 | 121,999 | 35,913 | 29,906 | 97,497 | 166,742 | | 452,057 |
| 1970 | 115,782 | 33,995 | 27,085 | 84,534 | 168,385 | | 429,781 |
| 1971 | 121,160 | 29,703 | 26,698 | 77,045 | 170,508 | | 425,114 |
| 1972 | 114,369 | 29,036 | 28,518 | 71,183 | 171,235 | | 414,341 |
| 1973 | 102,484 | 18,917 | 25,704 | 64,751 | 154,271 | | 366,127 |
| 1974 | 91,421 | 14,394 | 29,651 | 56,670 | 141,864 | | 334,000 |
| 1975 | 76,739 | 10,996 | 26,688 | 47,336 | 148,241 | | 310,000 |
| 1976 | 47,619 | 10,336 | 32,957 | 38,629 | 125,459 | | 255,000 |
| 1977 | 43,119 | 9,581 | 31,647 | 29,922 | 118,726 | | 232,500 |
| 1978 | 41,133 | 9,916 | 30,671 | 38,272 | 113,011 | | 233,000 |
| 1979 | 40,884 | 13,054 | 27,895 | 26,055 | 130,037 | 2,080 | 240,005 |
| 1980 | 38,079 | 12,255 | 25,133 | 24,261 | 132,216 | 4,086 | 236,000 |
| 1981 | 39,174 | 13,029 | 21,855 | 17,669 | 153,604 | 2,669 | 248,000 |
| 1982 | 25,678 | 5,204 | 17,051 | 15,519 | 139,618 | 10 | 203,080 |
| 1983 | 27,443 | 4,378 | 11,307 | 13,251 | 166,341 | 32 | 228,560 |

* Two of the source publications were biennial rather than annual, and in each of these publications there was only one estimate of the crude oil reserves. Crude oil reserves for the two "missing" years have been interpolated from data values in the adjacent years.

The regions shown correspond to the following geological basins:

| | |
|---|---|
| North | Sweetgrass Arch & Bearpaw Uplift |
| Northeast | Williston Basin |
| Central | Big Snowy Uplift |
| South Central | Big Horn Basin |
| Southeast | Powder River Basin |

NOTE: Totals may not add exactly, due to rounding.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 61. Based on Oil and Gas Division, Annual Review, 1955-82.

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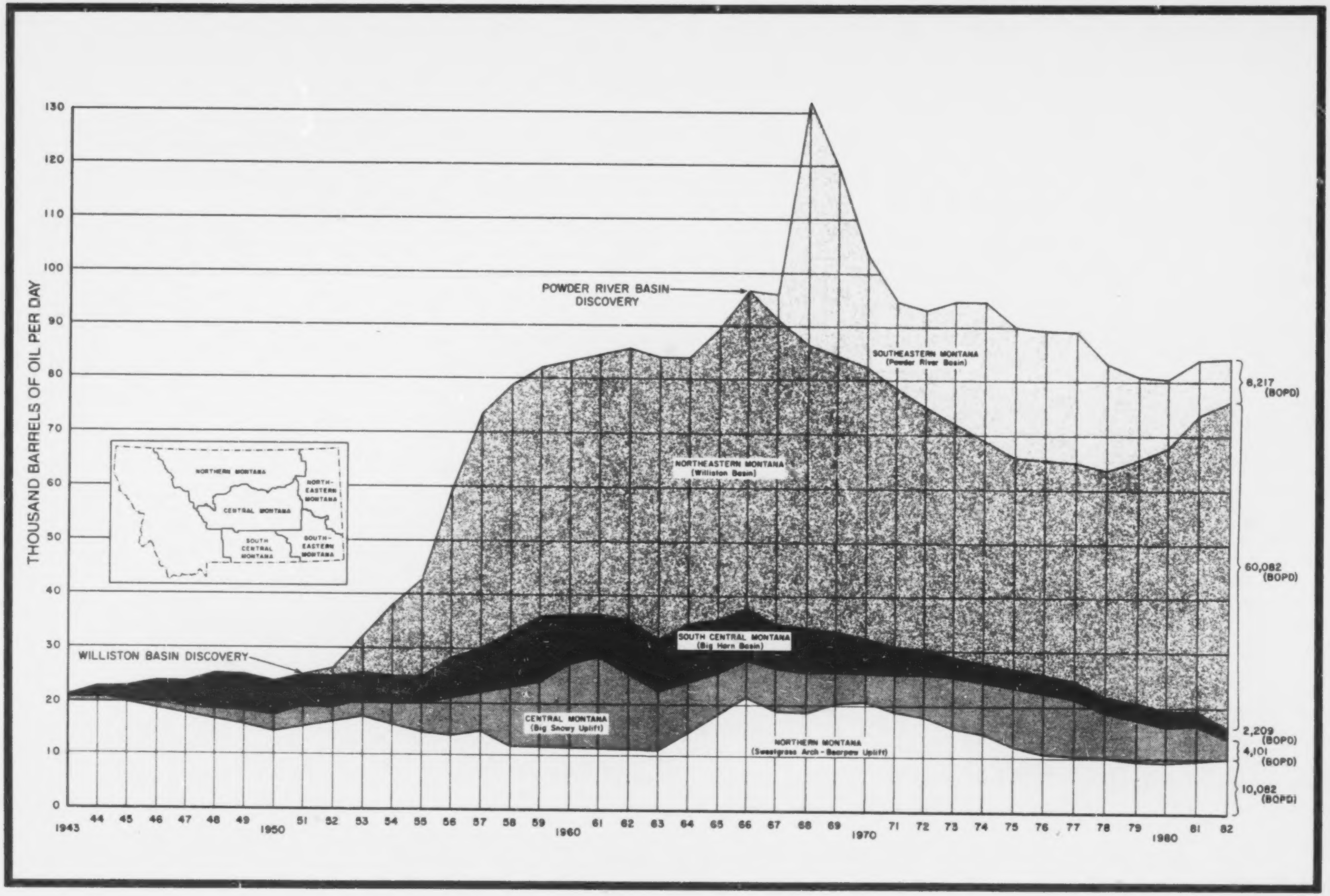

FIGURE XIX-7
CRUDE OIL PRODUCTION, 1943-82

SOURCE: Montana Department of Natural Resources and Conservation, Oil and Gas Conservation Division, *Annual Review*, 1982.

## TABLE XIX - 16

## CRUDE OIL PRODUCTION & AVERAGE WELLHEAD PRICES: 1950-82
(in thousands of barrels and dollars per barrel)

| | MT Dept. of Nat. Res. | | U.S. Dept. of Interior | | MT Dept. of Revenue | |
|---|---|---|---|---|---|---|
| Year | Production of Crude Oil | Wellhead Price | Production of Crude Oil | Wellhead Price | Production of Crude Oil | Wellhead Price |
| 1950 | 8,109 | | | $ 2.52 | 7,841 | $ 2.47 |
| 1951 | 8,958 | | | 2.47 | 8,814 | 2.35 |
| 1952 | 9,606 | | | 2.25 | 9,527 | 2.26 |
| 1953 | 11,920 | | | 2.18 | 11,793 | 2.23 |
| 1954 | 14,195 | | | 2.20 | 14,023 | 2.22 |
| 1955 | 15,654 | | | 2.26 | 16,548 | 2.18 |
| 1956 | 21,760 | | | 2.58 | 21,262 | 2.47 |
| 1957 | 27,122 | | | 2.70 | 26,658 | 2.43 |
| 1958 | 27,957 | | | 2.65 | 27,816 | 2.62 |
| 1959 | 29,857 | | | 2.56 | 29,985 | 2.50 |
| 1960 | 30,240 | | | 2.41 | 29,937 | 2.45 |
| 1961 | 30,906 | | | 2.42 | 30,499 | 2.42 |
| 1962 | 31,648 | | | 2.42 | 31,270 | 2.44 |
| 1963 | 30,870 | | | 2.44 | 30,364 | 2.44 |
| 1964 | 30,647 | | | 2.43 | 30,241 | 2.45 |
| 1965 | 32,778 | | | 2.43 | 32,089 | 2.44 |
| 1966 | 35,380 | | | 2.44 | 34,734 | 2.45 |
| 1967 | 34,959 | | | 2.50 | 34,316 | 2.50 |
| 1968 | 48,460 | | | 2.57 | 47,152 | 2.56 |
| 1969 | 43,954 | | | 2.69 | 44,446 | 2.76 |
| 1970 | 37,879 | | | 2.78 | 38,058 | 2.83 |
| 1971 | 34,599 | | | 3.01 | 34,625 | 3.05 |
| 1972 | 33,904 | | 33,904 | 3.07 | 34,572 | 2.99 |
| 1973 | 34,620 | | 34,620 | 3.33 | 34,584 | 3.85 |
| 1974 | 34,554 | | 34,554 | 6.65 | 34,629 | 6.82 |
| 1975 | 32,844 | | 32,844 | 7.83 | 32,815 | 7.83 |
| 1976 | 32,814 | | 32,814 | 8.42 | 32,057 | 8.49 |
| 1977 | 32,680 | | 32,680 | 8.58 | 30,696 | 9.07 |
| 1978 | 30,467 | | 30,467 | 9.25 | 30,935 | 9.31 |
| 1979 | 29,957 | 12.39 | 29,957 | 12.39 | 30,286 | 13.00 |
| 1980 | 29,584 | 22.24 | 29,584 | 22.24 | 29,927 | 20.92 |
| 1981 | 30,813 | 34.73 | 30,813 | 34.69 | 30,518 | 34.48 |
| 1982 | 30,917 | 31.26 | 30,921 | 31.24 | 30,938 | 31.14 |

NOTE: Average wellhead prices were computed by dividing the gross value of production by the number of barrels extracted.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 62. Based on Montana DNRC, Oil & Gas Conservation Division Annual Review, 1950-82. The Montana DNRC acknowledges discrepancies in its data. For 1982, the difference between the amount of Montana oil available for refining in Montana (calculated as the amount of oil produced in Montana less the amount of Montana oil exported) and the amount of Montana oil delivered to refineries in Montana was 132,000. Of this, 69,000 barrels were presumed lost or used by producers and 30,000 barrels were presumed to be in tank storage at the oil fields. The remaining 33,000 barrels are unaccounted for, but constitute only one-tenth of 1 percent of the 1982 Montana production.

U.S. Dept. of the Interior, Bureau of Mines, Mineral Industry Surveys, Crude Petroleum, Petroleum Products, and Natural Gas Liquids, annual reports for 1950-75; U.S. Dept. of Energy, Energy Information Admin., Crude Petroleum, Petroleum Products, and Natural Gas Liquids, annual reports for 1976-80; Petroleum Supply Annual, annual reports for 1981-82 for 1981 and 1982 production figures; phone call for 1981 and 1982 wellhead prices. DOE used the reported state figures for the years 1972-80 in its publications. In 1982 DOE went to independent estimates for its data. These independent estimates, which may appear in future DOE publications, are as follows: 1979 - 31,224 thousand barrels and $12.03 per barrel; 1980 - 30,193 thousand barrels and $20.53 per barrel; 1981 - 31,040 thousand barrels.

Montana Dept. of Revenue, Property Assessement Division (1950-81); Montana Dept. of Revenue, Research & Information Division, 1982).

## TABLE XIX - 17

## MAIN LINE SALES OF NATURAL GAS BY STATE: 1981
(million cubic feet)

| State | Type of Sale | | | | Total Sales |
|---|---|---|---|---|---|
| | Firm | Offpeak | Interruptible | Not Specified | |
| Alabama | 46,131 | 0 | 10,552 | 0 | 56,683 |
| Arizona | 65,527 | 0 | 0 | 0 | 65,527 |
| Arkansas | 133,930 | 0 | 7,913 | 0 | 141,843 |
| Colorado | 87 | 0 | 277 | 19,396 | 19,760 |
| Delaware | 1,989 | 0 | 1,683 | 1,671 | 5,343 |
| Florida | 21,926 | 0 | 115,776 | 0 | 137,702 |
| Georgia | 3,496 | 0 | 17,924 | 0 | 21,420 |
| Illinois | 16,996 | 0 | 30,941 | 0 | 47,937 |
| Indiana | 2 | 0 | 3,482 | 0 | 3,484 |
| Iowa | 8,079 | 0 | 844 | 0 | 8,923 |
| Kansas | 31,514 | 0 | 44,427 | 13,475 | 89,416 |
| Kentucky | 13,664 | 0 | 84 | 0 | 13,748 |
| Louisiana | 217,522 | 0 | 6,155 | 534 | 224,211 |
| Maryland | 0 | 0 | 172 | 72 | 244 |
| Michigan | 9,945 | 0 | 2,120 | 00 | 12,065 |
| Minnesota | 21,884 | 0 | 3,927 | 0 | 25,811 |
| Mississippi | 84,788 | 0 | 1,151 | 0 | 85,939 |
| Missouri | 4,171 | 0 | 12,928 | 241 | 17,340 |
| Montana | 0 | 0 | 2,903 | 0 | 2,903 |
| Nebraska | 15,277 | 0 | 1,918 | 12,256 | 29,451 |
| Nevada | 51,241 | 0 | 0 | 0 | 51,241 |
| New Hampshire | 144 | 0 | 67 | 0 | 211 |
| New Jersey | 0 | 0 | 0 | 1,780 | 1,780 |
| New Mexico | 17,934 | 0 | 169 | 0 | 18,103 |
| North Dakota | 0 | 0 | 273 | 0 | 273 |
| Ohio | 5 | 3,823 | 4,476 | 0 | 8,304 |
| Oklahoma | 987 | 0 | 11,379 | 381 | 12,747 |
| Pennsylvania | 12,379 | 1,573 | 0 | 0 | 13,952 |
| South Carolina | 2,541 | 0 | 1,839 | 0 | 4,380 |
| South Dakota | 1 | 0 | 491 | 0 | 492 |
| Tennessee | 20,309 | 0 | 15,855 | 0 | 36,164 |
| Texas | 28,786 | 0 | 187,662 | 0 | 216,448 |
| Virginia | 172 | 0 | 768 | 121 | 1,061 |
| Washington | 3,409 | 0 | 0 | 0 | 3,409 |
| West Virginia | 679 | 0 | 803 | 48 | 1,530 |
| Wyoming | 136 | 0 | 7,699 | 914 | 8,749 |
| Total: | 835,651 | 5,396 | 496,658 | 50,889 | 1,388,594 |

SOURCE: U.S. Dept. of Energy, Energy Information Administration, Natural Gas Monthly, June 1984.

## TABLE XIX - 18

## PRODUCING GAS & GAS CONDENSATE WELLS, MONTANA
1966 - 1982

| Year | Number of Wells | Year | Number of Wells |
|---|---|---|---|
| 1966 | 784 | 1975 | 1,235 |
| 1967 | 648 | 1976 | 1,490 |
| 1968 | 1,196 | 1977 | 1,438 |
| 1969 | 1,098 | 1978 | 1,755 |
| 1970 | 739 | 1979 | 1,881 |
| 1971 | 1,056 | 1980 | 1,881 |
| 1972 | 1,116 | 1981 | 2,140 |
| 1973 | 1,118 | 1982 | 2,111 |
| 1974 | 1,450 | | |

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 57. Based on U.S. Dept. of the Interior, Bureau of Mines, Mineral Industry Surveys, Natural Gas Production and Consumption, annual reports (1966-75); U.S. Dept. of Energy, Energy Information Administration, Natural Gas Production and Consumption, annual reports for 1976-79; U.S. Dept. of Energy, Energy Information Administration, Natural Gas Annual, annual reports for 1980-82.

## TABLE XIX - 19

## MONTANA'S INDUSTRIAL CONSUMPTION OF NATURAL GAS BY STANDARD INDUSTRIAL CLASSIFICATION CODE: 1977-81

(million cubic feet)

| Group | Description | 1977 | 1978 | 1979 | 1980 | 1981 |
|---|---|---|---|---|---|---|
| 10-14 | Mining | 711 | 699 | 368 | 366 | 430 |
| 20 | Food & Kindred Products | 2,255 | 1,384 | 1,806 | 1,743 | 1,784 |
| 24 | Lumber & Wood Products | 1,311 | 867 | 758 | 521 | 214 |
| 26 | Paper & Allied Products | 3,601 | 3,854 | 3,782 | 3,766 | 3,482 |
| 27 | Printing & Publishing | 188 | | | | |
| 28 | Chemicals & Allied Products | 1,377 | 1,027 | 903 | 1,185 | 962 |
| 29 | Petroleum & Coal Products | 5,045 | 3,366 | 2,673 | 2,591 | 4,353 |
| 32 | Stone, Clay, Glass & Concrete Products | 2,248 | 2,276 | 1,303 | 431 | 296 |
| 333-339 | Primary Nonferrous Metals | 8,069 | 6,853 | 7,311 | 4,978 | 3,102 |
| 37 | Transportation Equipment | 314 | 339 | 364 | 302 | |
| 40-49 | Transportation & Public Utilities | | | | | 1,607 |
| Other SIC Classes and Not Classified or Unreported | | 688 | 991 | 821 | 1,466 | 1,224 |
| Total Industrial Consumption: | | 25,807 | 21,656 | 20,089 | 17,349 | 17,454 |

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 56. Based on: Gas Requirements Agency, University of Denver Research Institute, United States Gas Consumption 1977, September 1978; Gas Requirements Agency, Mellon Institute of Research, Future Gas Consumption in the United States 1979, September 1980 (supplement to Vol. 8 of Future Gas Consumption in the United States); Gas Requirements Committee, Future Gas Consumption in the United States, Vol. 9, August 1982; Gas Requirements Committee, Actual Gas Consumption in the United States 1981, November 1982 (supplement to Vol. 9 of Future Gas Consumption in the United States).

TABLE XIX - 20

## MONTANA'S CAPACITY AND PRODUCTION OF NATURAL GAS PROCESSING PLANTS: 1961-82

| | | Input (million c.f./day) | | Average Production (gallons/day) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| As of 12/31 of the Year | Number of Plants | Gas Capacity | Gas Throughput | Propane | Normal or Unsplit Butane | Liquefied Petroleum Gas Mix | Raw Natural Gas Liquid Mix | Debutanized Natural Gasoline | Other | Total Products |
| 1961 | 2 | 66.2 | 32.0 | 8,000 | 8,600 | -- | 39,400 | -- | -- | 56,000 |
| 1962 | 2 | 65.8 | 27.4 | 9,400 | 8,000 | -- | 37,000 | -- | -- | 54,400 |
| 1963 | 2 | 65.8 | 21.9 | 6,100 | 6,400 | -- | 32,200 | -- | -- | 44,700 |
| 1964 | 2 | 55.8 | 23.3 | 6,800 | 7,600 | -- | 38,700 | -- | -- | 53,100 |
| 1965 | 2 | 55.8 | 24.3 | 3,700 | 8,900 | -- | 38,400 | -- | -- | 51,000 |
| 1966 | 5 | 66.8 | 32.9 | 30,800 | 9,200 | 6,000 | 77,240 | -- | -- | 123,240 |
| 1967 | 5 | 360.9 | 272.9 | 23,325 | 9,000 | 25,370 | 47,155 | -- | -- | 104,850 |
| 1968 | 5 | 107.8 | 82.5 | 32,500 | 9,000 | 15,000 | 54,900 | -- | -- | 111,400 |
| 1969 | 4 | 68.8 | 57.0 | 37,500 | 9,000 | 15,000 | 75,000 | -- | -- | 136,500 |
| 1970 | 7 | 75.8 | 42.7 | 40,800 | 11,000 | -- | 60,500 | 35,680 | -- | 147,980 |
| 1971 | 6 | 73.3 | 40.3 | 33,550 | 9,400 | 6,000 | 59,400 | 9,590 | -- | 117,940 |
| 1972 | 4 | 44.3 | 29.6 | 24,900 | 9,400 | -- | 43,500 | 9,500 | -- | 87,390 |
| 1973 | 4 | 44.3 | 21.3 | 28,727 | 6,026 | 17,000 | 13,576 | -- | -- | 65,329 |
| 1974 | 4 | 45.3 | 20.6 | 30,786 | 8,260 | -- | 9,000 | 10,466 | 17,000 | 75,512 |
| 1975 | 4 | 44.3 | 26.1 | 31,200 | 9,100 | -- | 9,000 | 8,350 | 16,000 | 73,650 |
| 1976 | 8 | 56.3 | 28.5 | 30,300 | 9,600 | 24,000 | 16,000 | 22,600 | -- | 102,500 |
| 1977 | 6 | 53.5 | 30.6 | 20,800 | 12,200 | 17,000 | 16,600 | 10,500 | -- | 77,100 |
| 1978 | 7 | 54.5 | 26.1 | 21,700 | 12,900 | 11,000 | 16,500 | 10,000 | -- | 72,100 |
| 1979 | 8 | 62.9 | 28.3 | 26,800 | 11,200 | -- | 43,700 | -- | -- | 81,700 |
| 1980 | 8 | 60.9 | 36.3 | 32,300 | 10,600 | -- | 54,800 | -- | 400 | 98,100 |
| 1981 | 9 | 58.8 | 35.5 | 27,800 | 7,900 | 10,000 | 50,500 | -- | 800 | 97,000 |
| 1982 | 9 | 63.3 | 37.8 | 30,600 | 12,100 | 5,000 | 43,200 | 8,400 | 1,000 | 100,300 |

NOTE: Since this compilation includes cycling plants reprocessing pipeline gas, totals shown here for gas throughput do not relate directly to government data on total gas processed or sold. Similarly, liquids production figures are based on yearly average and do not necessarily reconcile with government data.

SOURCE: Monana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 55. Based on Oil and Gas Journal, annual gas processing report issue (1961-82).

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## TABLE XIX - 21

## MONTANA'S NATURAL GAS PRODUCTION & CONSUMPTION: 1950-82
(million cubic feet)

| Year | Gross Withdrawal | Marketed Production | Consumption | Gas Delivered | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Residential | Commercial | Industrial | Electric Utilities | Other Consumers | Total |
| 1950 | 40,975 | 38,972 | 38,333 | 12,596 | 7,536 | 13,979 | 892 | (NA) | 35,002 |
| 1951 | 36,897 | 36,225 | 37,276 | 12,287 | 7,379 | 15,047 | 884 | (NA) | 35,598 |
| 1952 | 29,140 | 28,557 | 41,545 | 12,263 | 7,794 | 17,422 | 998 | (NA) | 38,476 |
| 1953 | 28,245 | 27,736 | 40,953 | 12,029 | 7,544 | 16,559 | 1,237 | (NA) | 37,368 |
| 1954 | 30,532 | 30,087 | 41,002 | 13,314 | 8,277 | 14,909 | 601 | (NA) | 37,101 |
| 1955 | 28,841 | 28,100 | 47,861 | 15,335 | 9,427 | 18,240 | 630 | (NA) | 43,631 |
| 1956 | 26,852 | 25,706 | 48,305 | 15,235 | 9,314 | 18,226 | 876 | (NA) | 43,651 |
| 1957 | 30,830 | 28,481 | 54,868 | 16,725 | 10,116 | 18,429 | 2,954 | (NA) | 48,224 |
| 1958 | 30,830 | 27,836 | 54,725 | 14,970 | 9,546 | 18,960 | 3,183 | (NA) | 46,659 |
| 1959 | 32,819 | 30,575 | 51,898 | 17,310 | 11,124 | 16,438 | 1,005 | (NA) | 45,877 |
| 1960 | 37,792 | 33,235 | 54,271 | 16,825 | 11,820 | 19,558 | 339 | (NA) | 48,543 |
| 1961 | 36,798 | 33,716 | 57,465 | 17,086 | 12,140 | 21,404 | 354 | (NA) | 50,985 |
| 1962 | 32,621 | 29,791 | 62,952 | 17,078 | 12,302 | 21,713 | 3,692 | (NA) | 54,785 |
| 1963 | 31,228 | 29,862 | 66,969 | 17,274 | 12,569 | 24,613 | 3,285 | (NA) | 57,740 |
| 1964 | 26,653 | 25,050 | 67,282 | 18,792 | 13,059 | 26,419 | 2,437 | (NA) | 60,706 |
| 1965 | 29,800 | 28,105 | 70,895 | 19,908 | 14,110 | 28,310 | 1,992 | (NA) | 64,320 |
| 1966 | 36,048 | 30,685 | 73,829 | 19,690 | 14,068 | 29,571 | 2,977 | (NA) | 66,306 |
| 1967 | 31,610 | 25,866 | 65,782 | 19,756 | 13,090 | 22,584 | 502 | 2,426 | 58,358 |
| 1968 | 32,229 | 19,313 | 63,642 | 19,711 | 11,529 | 23,155 | 631 | 2,122 | 57,148 |
| 1969 | 68,064 | 41,229 | 78,988 | 21,463 | 14,239 | 31,917 | 1,520 | 2,354 | 71,493 |
| 1970 | 48,302 | 42,705 | 90,823 | 24,794 | 15,520 | 36,105 | 2,529 | 3,044 | 81,992 |
| 1971 | 38,136 | 32,720 | 89,021 | 25,379 | 15,734 | 36,800 | 1,075 | 2,375 | 81,363 |
| 1972 | 38,137 | 33,474 | 85,161 | 23,787 | 16,521 | 33,192 | 1,218 | 2,630 | 77,348 |
| 1973 | 60,931 | 56,175 | 91,148 | 24,923 | 16,786 | 37,898 | 2,322 | 2,357 | 84,286 |
| 1974 | 59,524 | 54,873 | 80,766 | 21,590 | 14,353 | 35,202 | 1,111 | 2,249 | 74,505 |
| 1975 | 44,547 | 40,734 | 80,351 | 24,097 | 16,233 | 31,631 | 1,059 | 2,421 | 75,441 |
| 1976 | 45,097 | 42,563 | 78,094 | 23,525 | 15,490 | 31,049 | 709 | 2,341 | 73,114 |
| 1977 | 48,181 | 46,819 | 70,956 | 21,596 | 14,626 | 27,260 | 953 | 2,080 | 66,515 |
| 1978 | 48,497 | 46,522 | 72,649 | 22,944 | 15,548 | 26,686 | 909 | 2,218 | [illegible],305 |
| 1979 | 56,094 | 53,888 | 69,805 | 22,579 | 15,255 | 20,411 | 2,320 | 2,141 | 62,706 |
| 1980 | 53,802 | 51,867 | 60,724 | 19,296 | 13,612 | 16,717 | 4,182 | 653 | 54,460 |
| 1981 | 58,502 | 56,565 | 52,452 | 17,245 | 12,572 | 15,494 | 2,069 | 1,153 | 48,533 |
| 1982 | 58,184 | 56,517 | 52,208 | 19,989 | 15,987 | 11,574 | 337 | | 47,887 |

NOTE: Marketed Production represents gross withdrawals of natural gas from gas and oil wells, less gas used for repressuring, nonhydrocarbon gases removed, and quantities vented and flared.
For 1979 and prior years, the volumes of nonhydrocarbon gases included in marketed production were not reported. For 1980 and 1981, the amount of nonhydrocarbon gases removed was not available for Montana data, so DOE used the same figure for Montana's marketed production including nonhydrocarbon gases as is used for marketed production excluding nonhydrocarbon gases.
Consumption is defined as total gas delivered to consumers, plus lease and plant fuel, plus pipeline fuel.
Industrial use includes refinery use of gas, but excludes pipeline fuel.
Other Consumers includes delivery to municipalities and public authorities for institutional heating, street lighting, etc. This category was not used before 1967; it was included in Industrial Consumption before that year. This category was merged with the Commercial category in 1982.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 53. Based on U.S. Dept. of the Interior, Bureau of Mines, Mineral Industry Surveys, Natural Gas Production and Consumption, annual reports for 1950-75; U.S. Dept. of Energy, Energy Information Administration, Natural Gas Production and Consumption, annual reports for 1976-79, and Natural Gas Annual, annual reports for 1980-82.

## TABLE XIX - 22

## MONTANA'S PRODUCTION AND AVERAGE WELLHEAD PRICE OF NATURAL GAS: 1950-1982

| Year | MT DNRC Est. Production (mill. cu.ft.) | MT DOR Est. Production (mill. cu.ft.) | Avg. Wellhead Price (¢/thou. cu.ft.) |
|---|---|---|---|
| 1950 | 39,708 | 39,010 | 5.0 |
| 1951 | 39,038 | 36,123 | 5.3 |
| 1952 | 30,409 | 27,939 | 5.7 |
| 1953 | 31,779 | 28,592 | 6.3 |
| 1954 | 31,150 | 29,765 | 6.0 |
| 1955 | 30,468 | 30,227 | 5.2 |
| 1956 | 29,536 | 28,350 | 6.1 |
| 1957 | 32,979 | 31,413 | 6.0 |
| 1958 | 31,327 | 27,689 | 6.5 |
| 1959 | 31,585 | 30,551 | 6.0 |
| 1960 | 35,381 | 30,411 | 6.8 |
| 1961 | 34,884 | 32,407 | 6.4 |
| 1962 | 28,973 | 29,417 | 6.1 |
| 1963 | 27,113 | 25,504 | 6.6 |
| 1964 | 25,234 | 23,592 | 6.6 |
| 1965 | 27,873 | 26,285 | 6.5 |
| 1966 | 32,414 | 29,041 | 8.1 |
| 1967 | 31,619 | 29,276 | 7.9 |
| 1968 | 31,917 | 28,831 | 8.8 |
| 1969 | 41,229 | 37,804 | 7.2 |
| 1970 | 37,445 | 35,225 | 8.1 |
| 1971 | 38,137 | 28,775 | 8.2 |
| 1972 | 35,606 | 32,171 | 10.0 |
| 1973 | 58,896 | 56,383 | 15.9 |
| 1974 | 51,401 | 41,753 | 25.2 |
| 1975 | 44,546 | 41,664 | 39.4 |
| 1976 | 45,098 | 42,449 | 44.0 |
| 1977 | 48,181 | 45,245 | 72.0 |
| 1978 | 47,140 | 46,759 | 83.7 |
| 1979 | 53,888 | 54,969 | 120.2 |
| 1980 | 53,802 | 53,520 | 143.6 |
| 1981 | 50,073 | 48,654 | [illegible]0.0 |
| 1982 | 50,932 | 48,338 | [illegible]0.2 |

Average wellhead price is computed by dividing the gross value of the gas produced by the volume produced.

NOTE: DNRC production data are based on reports by gas producers, which exclude gas vented or flared and gas used in pressuring. Production equals the U.S. Dept. of Interior, Bureau of Mines marketed production, except that some gas withdrawn from storage facilities in Montana may be included in the DNRC data. Department of Revenue (DOR) data are based on tax receipts received from industry.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 47. Based on: Montana Dept. of Natural Resources & Conservation, Oil & Gas Conservation Division, Annual Review, 1950-82; and Montana Dept. of Revenue, Property Assessment division (1950-81), Research & Information Division (1982).

## TABLE XIX - 23

## MONTANA'S YEAR-END NATURAL GAS PROVED RESERVES: 1950-79
(million cubic feet)

| Year | Nonassociated | Associated or Dissolved | Underground Storage | Total Gas |
|---|---|---|---|---|
| 1950 | 718,722 | 69,839 | 4,470 | 793,031 |
| 1951 | 696,554 | 119,533 | 7,522 | 823,609 |
| 1952 | 693,916 | 119,631 | 9,562 | 823,109 |
| 1953 | 612,965 | 117,937 | 28,949 | 759,851 |
| 1954 | 573,496 | 116,183 | 30,122 | 719,801 |
| 1955 | 560,565 | 125,067 | 30,178 | 715,810 |
| 1956 | 546,049 | 115,906 | 30,614 | 692,569 |
| 1957 | 512,583 | 119,311 | 34,914 | 666,808 |
| 1958 | 508,851 | 132,295 | 37,163 | 678,309 |
| 1959 | 492,162 | 128,880 | 40,835 | 661,877 |
| 1960 | 462,532 | 105,362 | 54,883 | 622,777 |
| 1961 | 435,178 | 104,319 | 53,601 | 593,098 |
| 1962 | 419,128 | 98,958 | 82,085 | 600,171 |
| 1963 | 399,266 | 103,558 | 95,307 | 598,131 |
| 1964 | 384,278 | 99,287 | 106,704 | 590,269 |
| 1965 | 373,440 | 103,672 | 118,740 | 595,852 |
| 1966 | 383,346 | 102,239 | 134,765 | 620,350 |
| 1967 | 550,681 | 138,454 | 148,583 | 837,718 |
| 1968 | 579,572 | 174,266 | 157,695 | 911,533 |
| 1969 | 799,770 | 147,927 | 162,511 | 1,110,208 |
| 1970 | 793,283 | 141,854 | 164,786 | 1,099,923 |
| 1971 | 715,195 | 127,032 | 182,334 | 1,024,561 |
| 1972 | 790,660 | 92,628 | 180,748 | 1,064,036 |
| 1973 | 821,513 | 85,625 | 185,311 | 1,092,449 |
| 1974 | 676,749 | 81,272 | 143,239 | 901,260 |
| 1975 | 686,350 | 73,912 | 169,724 | 929,986 |
| 1976 | 876,452 | 67,435 | 162,383 | 1,106,270 |
| 1977 | 815,862 | 67,428 | 160,692 | 1,043,982 |
| 1978 | 768,683 | 65,779 | 157,206 | 991,668 |
| 1979 | 807,645 | 63,483 | 164,963 | 1,036,091 |

NOTE: Proved reserves are the estimated amounts of natural gas that geologic and engineering data indicate are recoverable from known reservoirs under present economic and operating conditions.

Natural gas is classified into two categories, based on type of occurrence in reservoirs, as follows: Nonassociated gas is defined as free natural gas not in contact with crude oil in the reservoir. Associated or dissolved gas is the combined volume of natural gas that occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with the crude oil (dissolved).

Since 1973 only the recoverable portion of natural gas in underground storage has been reported.

Joint American Gas Association, Canadian Petroleum Association, and American Petroleum Institute publication of the yearly reserves of natural gas and natural gas liquids ceased after 1979. Rather than develop independent reserve estimates, these organizations now publish the reserve estimates calculated by the U.S. Dept. of Energy.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, based on American Gas Association, Gas Facts, years indicated.

TABLE XIX - 24

## MONTANA YEAR-END PROVED RESERVES OF NATURAL GAS AND NATURAL GAS LIQUIDS: 1976-82

| Year | Natural Gas (wet after lease separation) (bill. cf) | Nonassociated Natural Gas (wet after lease separation) (bill. cf) | Associated Dissolved Natural Gas (wet after lease separation) (bill. cf) | (Dry) Natural Gas (bill. cf) | Natural Gas Liquids (mill. bls) |
|---|---|---|---|---|---|
| 1976 | | 761 | 45 | 806 | |
| 1977 | 867 | 838 | 49 | 867* | |
| 1978 | 926 | 893 | 33 | 926 | 42 |
| 1979 | 837 | 786 | 51 | 825 | 10 |
| 1980 | 1,308** | 1,186 | 122 | 1,287** | 16 |
| 1981 | 1,336** | 1,247 | 89 | 1,321** | 11 |
| 1982 | 870 | 789 | 81 | 647 | 18 |

* Volumes for 1978 were neither fully dry nor fully wet after lease separation.
** Reported on a dry basis prior to 1979.
*** Estimate is associated with a sampling error (95% confidence interval) that exceeds 20 percent of the estimated value.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 46. Based on U.S. Dept. of Energy, Energy Information Administration, U.S. Crude Oil and Natural Gas Reserves, annual reports for 1977-78; U.S. Crude Oil, Natural Gas, and Natural Gas Liquid Reserves, annual reports for 1979-82. The 1976 data appears in the 1977 annual report.

# TABLE XIX - 25

## DEMONSTRATED RESERVE BASE* OF COAL BY RANK
JANUARY 1, 1982
(million short tons)

| State | Anthracite | Bituminous | Subbituminous | Lignite | Total |
|---|---|---|---|---|---|
| Alabama | | 4,118.9 | | 1,083.0 | 5,201.9 |
| Alaska | | 697.5 | 5,441.0 | 14.0 | 6,152.6 |
| Arizona | | 381.9 | | | 381.9 |
| Arkansas | 104.1 | 288.4 | | 25.7 | 418.1 |
| Colorado | 25.5 | 9,044.7 | 3,962.7 | 4,189.9 | 17,222.8 |
| Georgia | | 3.6 | | | 3.6 |
| Idaho | | 4.4 | | | 4.4 |
| Illinois | | 78,769.3 | | | 78,769.3 |
| Indiana | | 10,510.0 | | | 10,510.0 |
| Iowa | | 2,195.9 | | | 2,195.9 |
| Kansas | | 990.9 | | | 990.9 |
| Kentucky, Eastern** | | 12,564.8 | | | 12,564.8 |
| Kentucky, Western** | | 20,947.0 | | | 20,947.0 |
| Maryland | | 809.9 | | | 809.9 |
| Michigan | | 127.7 | | | 127.7 |
| Missouri | | 6,056.2 | | | 6,056.2 |
| Montana | | 1,385.4 | 103,198.7 | 15,764.5 | 120,348.6 |
| New Mexico | 2.3 | 2,053.1 | 2,647.1 | | 4,702.5 |
| North Carolina | | 10.7 | | | 10.7 |
| North Dakota | | | | 9,908.5 | 9,908.5 |
| Ohio | | 18,944.8 | | | 18,944.8 |
| Oklahoma | | 1,623.8 | | | 1,623.8 |
| Oregon | | | 17.5 | | 17.5 |
| Pennsylvania | 7,079.2 | 22,926.0 | | | 30,005.2 |
| South Dakota | | | | 366.1 | 366.1 |
| Tennessee | | 952.8 | | | 952.8 |
| Texas | | | | 13,480.3 | 13,480.3 |
| Utah | | 6,422.6 | 1.1 | | 6,423.7 |
| Virginia | 125.5 | 3,196.7 | | | 3,322.2 |
| Washington | | 303.7 | 1,157.2 | 8.1 | 1,469.0 |
| West Virginia | | 39,346.8 | | | 39,346.8 |
| Wyoming | | 4,447.5 | 65,227.1 | | 69,674.6 |
| US Total | 7,336.6 | 249,125.0 | 181,652.4 | 44,840.0 | 482,954.0 |

* Includes measured and indicated resource categories as defined by the Energy Information Administration and represents 100 percent of the coal in place.

** Eastern Kentucky is in the Appalachian coal producing region; western Kentucky is in the U.S. interior coal producing region. Because coal reserves are calculated by region, these figures are shown separately.

NOTE: The coal reserve base consists of coal in the ground that was considered to be technically and economically minable on January 1, 1982. The amount of coal that can be recovered from the reserve base is termed the reserve. Recoverability ranges from 40 to 90 percent, depending on the characteristics of the coalbed, the mining method, and restraints imposed on the mining operation by natural and manmade features and restrictions. On a national basis, at least half of the coal reserve base, more than 200 billion tons, was estimated to be recoverable.

State geological and mineral resource surveys and other geological reports were used to update the U.S. Dept. of Energy, Energy Information Administration's Demonstrated Reserve Base of Coal in the United States on January 1, 1980. The update accounts for depletion due to mining during 1980 and 1981, revisions based on the data sources determined to be suitable under demonstrated reserve base (DRB) criteria, and adjustments using existing data sources in context with changes in DRB criteria or basic data interpretations.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984, p. 34. Based on U.S. Dept. of Energy, Energy Information Administration, Coal Production, annual report for 1982.

TABLE XIX - 26

## MONTANA COAL PRODUCTION & AVERAGE MINE PRICE BY RANK OF COAL: 1950-82

| Year | Production (thousand tons) | | | Average Mine Price (dollars/ton) | | |
|---|---|---|---|---|---|---|
| | Subbituminous | Lignite | Total | Subbituminous | Lignite | Total |
| 1950 | 2,468 | 52 | 2,520 | $ 2.30 | $ 3.37 | $ 2.33 |
| 1951 | 2,310 | 35 | 2,345 | 2.61 | 3.51 | 2.63 |
| 1952 | 2,039 | 31 | 2,070 | 2.80 | 3.70 | 2.81 |
| 1953 | 1,848 | 25 | 1,873 | 2.64 | 3.77 | 2.66 |
| 1954 | 1,491 | (NA) | (NA) | 2.79 | (NA) | (NA) |
| 1955 | 1,217 | 30 | 1,247 | 3.01 | 3.82 | 3.03 |
| 1956 | 820 | 26 | 846 | 4.11 | 3.70 | 4.10 |
| 1957 | 387 | 26 | 413 | 5.33 | 3.80 | 5.23 |
| 1958 | 211 | 94 | 305 | 5.94 | 2.34 | 4.84 |
| 1959 | 152 | 193 | 345 | 7.06 | 2.08 | 4.28 |
| 1960 | 113 | 200 | 313 | 6.87 | 2.06 | 3.79 |
| 1961 | 97 | 274 | 371 | 6.76 | 2.01 | 3.26 |
| 1962 | 78 | 304 | 382 | 6.90 | 1.99 | 2.98 |
| 1963 | 53 | 290 | 343 | 7.51 | 1.95 | 2.82 |
| 1964 | 46 | 300 | 346 | 7.40 | 1.95 | 2.68 |
| 1965 | 63 | 301 | 364 | 7.24 | 1.96 | 2.88 |
| 1966 | 91 | 328 | 419 | 7.10 | 1.96 | 3.08 |
| 1967 | 65 | 300 | 365 | (NA) | (NA) | (NA) |
| 1968 | 189 | 330 | 519 | 3.12 | 1.89 | 2.33 |
| 1969 | 722 | 308 | 1,030 | 2.18 | 2.03 | 2.13 |
| 1970 | 3,124 | 323 | 3,447 | 1.83 | 2.13 | 1.86 |
| 1971 | 6,737 | 327 | 7,064 | 1.79 | 2.27 | 1.82 |
| 1972 | 7,899 | 322 | 8,221 | 2.01 | 2.45 | 2.02 |
| 1973 | 10,411 | 314 | 10,725 | 2.83 | 2.60 | 2.82 |
| 1974 | 13,775 | 331 | 14,106 | 3.91 | 3.00 | 3.90 |
| 1975 | 21,620 | 520 | 22,140 | 5.06 | 5.04 | 5.06 |
| 1976 | 25,919 | 312 | 26,231 | (NA) | (NA) | 4.90 |
| 1977 | 29,020 | 300 | 29,320 | (NA) | (NA) | 5.30 |
| 1978 | 26,290 | 310 | 26,600 | (NA) | (NA) | 7.37 |
| 1979 | 32,343 | 333 | 32,676 | (D) | (D) | 9.76 |
| 1980 | 29,578 | 369 | 29,948 | (D) | (D) | 10.50 |
| 1981 | 33,341 | 204 | 33,545 | (D) | (D) | 12.14 |
| 1982 | 27,708 | 174 | 27,882 | (D) | (D) | 13.57 |

NA - Not available

D - Withheld to avoid disclosure of individual firms

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984. Based on U.S. Bureau of Mines (1950-76); U.S. Dept. of Energy, Energy Information Administration (1977-78); U.S. Dept. of Energy, Energy Information Administration, Coal Production, annual reports for 1979-82.

## TABLE XIX - 27

## RECEIPTS OF MONTANA COAL AT ELECTRIC UTILITY PLANTS*: 1973-82
(thousand short tons)

| | Received at Montana Utilities | | | | |
|---|---|---|---|---|---|
| Year | Subbituminous | Lignite | Montana Total | Received at Out-of-State Utilities | Total |
| 1973 | | | 882.0 | 9,741.0 | 10,623.0 |
| 1974 | | | 822.0 | 13,114.0 | 13,936.0 |
| 1975 | | | 1,197.0 | 20,180.0 | 21,377.0 |
| 1976 | | | 2,316.0 | 22,642.0 | 24,958.0 |
| 1977 | | | 3,223.0 | 22,730.0 | 25.954.0 |
| 1978 | 3,033.0 | 298.3 | 3,331.3 | 22,976.0 | 26,307.3 |
| 1979 | 3,207.0 | 303.9 | 3,510.9 | 24,612.8 | 28,123.7 |
| 1980 | 3,071.0 | 292.8 | 3,363.8 | 24,560.9 | 27,924.7 |
| 1981 | 3,129.0 | 210.1 | 3,339.1 | 26,633.8 | 29,972.9 |
| 1982 | 2,424.0 | 177.1 | 2,601.1 | 25,439.2 | 28,040.3 |

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* Plants of 25-megawatt capacity or larger.

SOURCE: Montana Dept. of Natural Resources & Conservation, Montana Historical Energy Statistics, 1984. Based on Federal Energy Regulatory Commission (formerly the Federal Power Commission), Form 423 (1973-77); U.S. Dept. of Energy, Energy Information Administration, Cost and Quality of Fuels for Electric Utility Plants, annual reports for 1978-82.

## TABLE XIX - 28

### DESTINATION OF MONTANA COAL DELIVERED TO STEAM-ELECTRIC PLANTS*: 1978-82

(thousand short tons)

| State of Destination | 1978 | 1979 | 1980 | 1981 | 1982 |
|---|---|---|---|---|---|
| Illinois | 5,688.2 | 4,106.4 | 3,693.5 | 2,669.0 | 2,145.6 |
| Indiana | 1,202.0 | 813.0 | 1,157.0 | 735.0 | 1,504.0 |
| Iowa | 223.6 | 180.4 | 207.3 | 256.6 | 213.4 |
| Kansas |  | 5.8 |  |  |  |
| Kentucky | 50.4 |  |  |  |  |
| Michigan | 3,309.0 | 3,727.0 | 3,426.0 | 5,398.0 | 3,702.5 |
| Minnesota | 10,007.1 | 11,449.5 | 10,737.7 | 10,664.4 | 10,038.7 |
| Montana | 3,331.3 | 3,510.9 | 3,363.8 | 3,339.1 | 2,601.1 |
| Nebraska |  |  | 41.4 |  |  |
| North Dakota |  | 3.3 |  |  |  |
| Texas |  | 1,609.0 | 2,722.7 | 4,385.4 | 5,372.7 |
| Wisconsin | 2,495.7 | 2,718.5 | 2,575.3 | 2,525.4 | 2,462.3 |
| Total: | 26,307.3 | 28,134.7 | 27,924.7 | 29,972.9 | 28,040.3 |

* Plants 25 megawatts or greater.

SOURCE: Montana Dept. of Natural Resources & Conservation, *Historical Energy Statistics*, 1984, p. 42. Based on U.S. Dept. of Energy, Energy Information Administration, *Cost and Quality of Fuels for Electric Utility Plants*, annual reports for 1978-82.

## TABLE XIX - 29

## DISTRIBUTION OF COAL FOR USE IN MONTANA: 1974-82
(thousand short tons)

| Year | Electric Utilities | Residential and Commercial | Industrial | Total |
|---|---|---|---|---|
| 1974 | 843 | 9 | 55 | 907 |
| 1975 | 1,203 | 7 | 42 | 1,252 |
| 1976 | 2,452 | 5 | 108 | 2,565 |
| 1977 | 3,225 | 1 | 182 | 3,408 |
| 1978 | 3,334 | 4 | 183 | 3,522 |
| 1979 | 3,513 | 3 | 214 | 3,731 |
| 1980 | 3,462 | 14 | 182 | 3,658 |
| 1981 | 3,318 | 7 | 253 | 3,578 |
| 1982 | 2,619 | 9 | 197 | 2,824 |

SOURCE: Montana Dept. of Natural Resources & Conservation, Historical Energy Statistics, 1984, p. 43. Based on U.S. Dept. of the Interior, Bureau of Mines, Mineral Industry Surveys, Bituminous Coal and Lignite Distribution, annual reports for 1974-76; U.S. Dept. of Energy, Energy Information Administration, Bituminous Coal and Lignite Distribution, quarterly reports for 1977, annual report for 1978; Bituminous and Subbituminous and Lignite Distribution, annual report for 1979; and Coal Distribution, annual reports for 1980-82.

# CHAPTER XX

# FORFEST PRODUCTS

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3 LOCATION OF ACTIVE WOOD PRODUCTS PLANTS, MONTANA: 1981. . . . . . . . . . . . . . . . . 389

## TABLE XX - 1

## FOREST PRODUCTS EMPLOYMENT* & LABOR INCOME IN MONTANA

| Item | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
|---|---|---|---|---|---|---|---|
| Employment: | | | | | | | |
| Lumber & Wood Prod. | 8,241 | 8,639 | 8,762 | 9,014 | 9,176 | 8,368 | 9,124 |
| Paper & Allied Prod. | (D) | (D) | (D) | 924 | 672 | 806 | 582 |
| Total: | (D) | (D) | (D) | 9,938 | 9,848 | 9,174 | 9,706 |
| Labor Income** (thousands of current dollars): | | | | | | | |
| Lumber & Wood Prod. | $66,955 | $77,415 | $81,967 | $90,939 | $101,733 | $103,410 | $127,375 |
| Paper & Allied Prod. | (D) | (D) | (D) | 12,094 | 9,383 | 11,105 | 11,297 |
| Total: | (D) | (D) | (D) | $103,033 | $111,116 | $114,515 | $138,672 |
| Labor Income** (thousands of constant 1983 dollars): | | | | | | | |
| Lumber & Wood Prod. | $154,612 | $171,356 | $175,082 | $183,771 | $186,685 | $176,284 | $206,585 |
| Paper & Allied Prod. | (D) | (D) | (D) | 24,440 | 17,218 | 18,931 | 18,322 |
| Total: | (D) | (D) | (D) | $208,210 | $203,904 | $195,215 | $224,907 |

| Item | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|---|
| Employment: | | | | | | | |
| Lumber & Wood Prod. | 9,946 | 10,750 | 10,913 | 9,235 | 8,772 | 7,115 | 8,812 |
| Paper & Allied Prod. | 603 | 658 | 712 | 809 | 836 | 801 | 865 |
| Total: | 10,549 | 11,408 | 11,625 | 10,044 | 9,608 | 7,916 | 9,677 |
| Labor Income** (thousands of current dollars): | | | | | | | |
| Lumber & Wood Prod. | $156,909 | $192,557 | $205,008 | $181,258 | $185,000 | $156,391 | $208,073 |
| Paper & Allied Prod. | 11,096 | 14,735 | 17,441 | 23,142 | $26,318 | 25,429 | 30,211 |
| Total: | $168,005 | $207,292 | $222,449 | $204,400 | $211,318 | $181,820 | $238,284 |

TABLE XX - 1
(cont.)

| Item | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|---|
| Labor Income** (thousands of constant 1983 dollars): | | | | | | | |
| Lumber & Wood Prod. | $240,601 | $275,856 | $269,475 | $216,294 | $203,167 | $162,161 | $208,073 |
| Paper & Allied Prod. | 17,014 | 21,109 | 22,926 | 27,615 | 28,902 | 26,367 | 30,211 |
| Total: | $257,615 | $296,966 | $292,401 | $243,910 | $232,069 | $188,528 | $238,284 |

(D) - Withheld to avoid disclosure of individual firms.

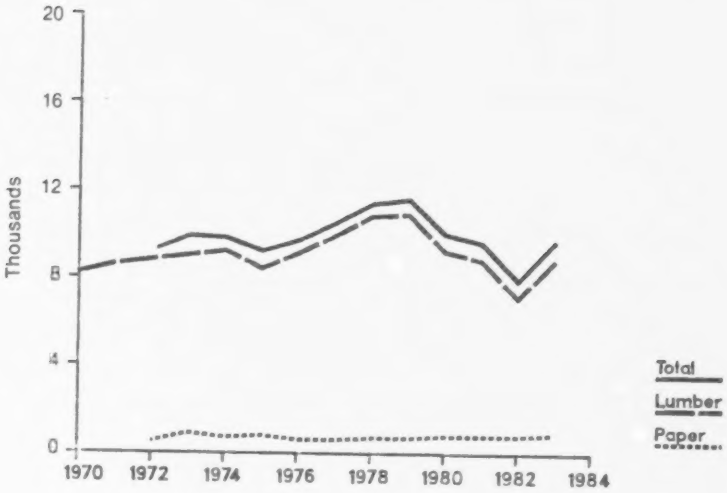
* Excluding proprietors' employment.
** Including proprietors' income.

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished data, August 1984 and Keegan, Jackson & Johnson, *Montana's Forest Products Industry*, 1983, for 1981 lumber and wood products employment and income. Constant 1983 dollars by the Census & Economic Information Center, using the GNP implicit price deflator for personal consumption expenditures. Paper products employment and labor income, which are normally suppressed, are published here with the written permission of the industry's dominant firm.

# FIGURE XX-1
# MONTANA FOREST PRODUCTS
# EMPLOYMENT & LABOR INCOME: 1970-1983

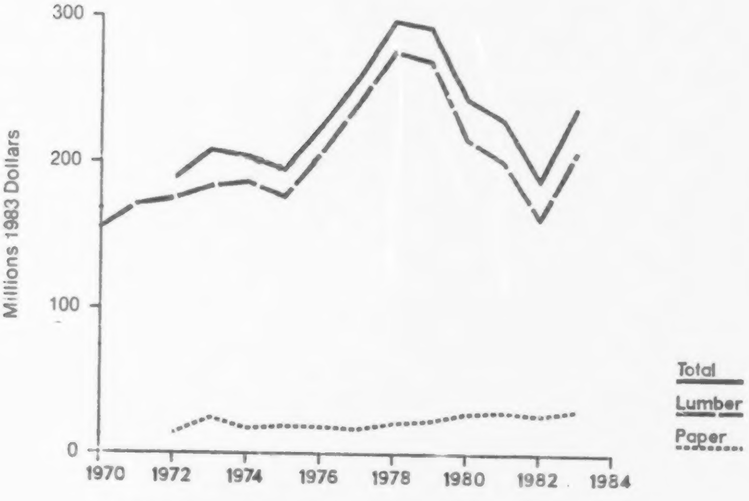
## Figure XX-1a

Forest Products Employment



## Figure XX-1b

Forest Products Labor Income

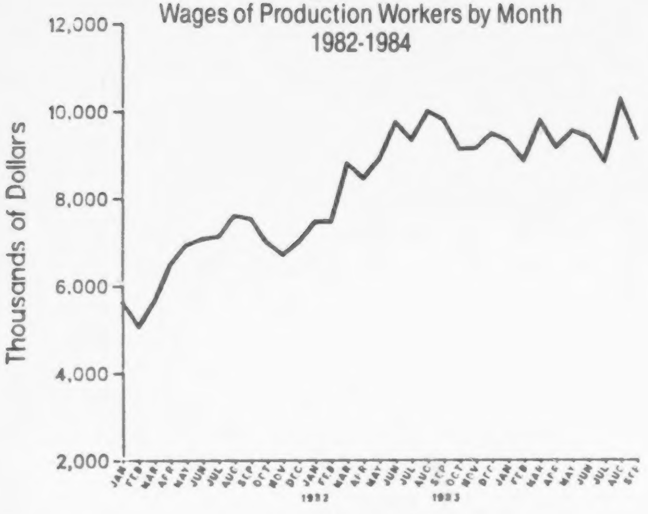


*Source: U.S. Bureau of Economic Analysis.*

## FIGURE X-2
## MONTANA WOOD PRODUCTS INDUSTRY

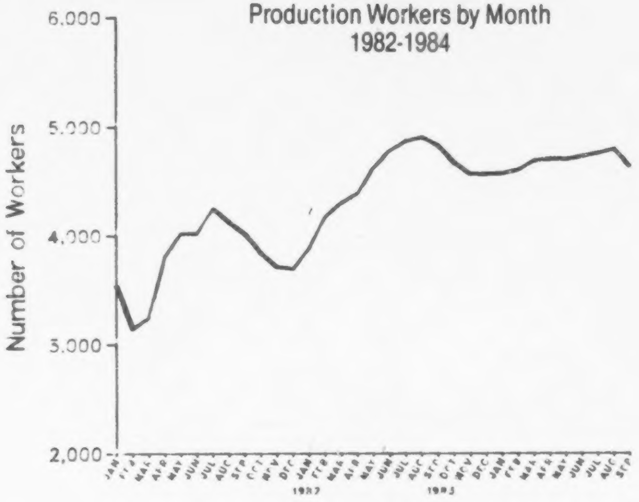
### Figure XX-2a

Wages of Production Workers by Month
1982-1984



### Figure XX-2b

Production Workers by Month
1982-1984



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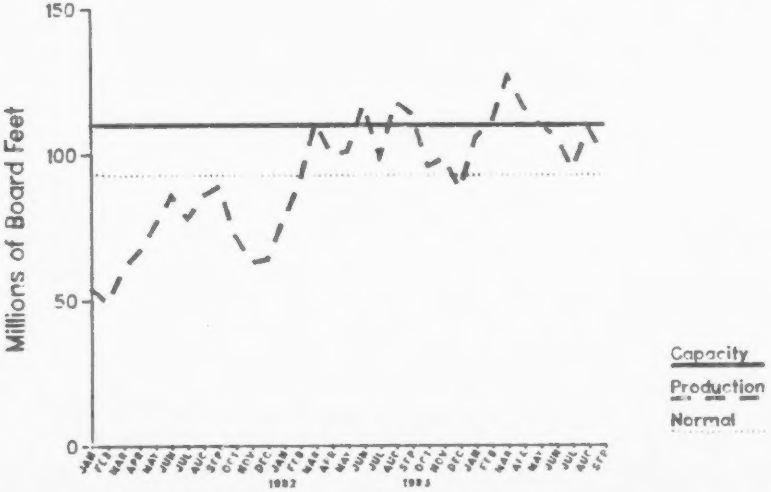
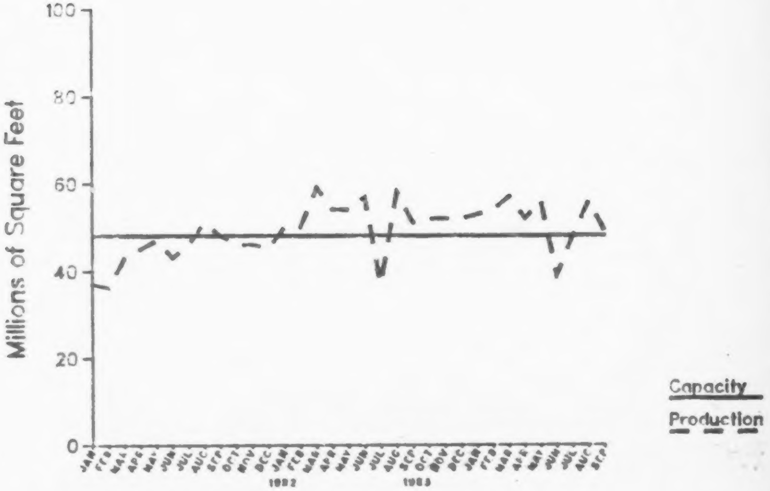
### Figure XX-2c

Montana Monthly Lumber Production
1982–1984



### Figure XX-2d

Montana Monthly Plywood Production
1982–1984



*Source: Bureau of Business and Economic Research, University of Montana.*

## TABLE XX - 2

## MONTANA SAWMILLS, PLYWOOD PLANTS, PULP & BOARD MILLS, & UTILITY POLE PLANTS: 1982 - 1984

| Date | Mills Operating at Normal Levels (number) | Total Production Workers* | Total Production Wages* (000) | Lumber Production (MMBF)** | Plywood Production (MMSF)*** |
|---|---|---|---|---|---|
| 01/82 | 5 | 3,542 | $ 5,636 | 54 | 37 |
| 02/82 | 5 | 3,149 | 5,077 | 49 | 36 |
| 03/82 | 5 | 3,247 | 5,646 | 61 | 43 |
| 04/82 | 12 | 3,813 | 6,492 | 67 | 45 |
| 05/82 | 12 | 4,021 | 6,943 | 76 | 47 |
| 06/82 | 14 | 4,021 | 7,083 | 86 | 43 |
| 07/82 | 22 | 4,239 | 7,135 | 78 | 46 |
| 08/82 | 21 | 4,125 | 7,603 | 86 | 51 |
| 09/82 | 18 | 4,021 | 7,518 | 89 | 48 |
| 10/82 | 15 | 3,837 | 6,997 | 72 | 46 |
| 11/82 | 15 | 3,715 | 6,712 | 63 | 46 |
| 12/82 | 16 | 3,696 | 7,025 | 64 | 45 |
| Total: | (X) | (X) | $79,867 | 845 | 533 |
| 01/83 | 26 | 3,888 | $ 7,465 | 78 | 50 |
| 02/83 | 29 | 4,178 | 7,469 | 90 | 50 |
| 03/83 | 31 | 4,306 | 8,792 | 111 | 59 |
| 04/83 | 29 | 4,387 | 8,467 | 100 | 54 |
| 05/83 | 31 | 4,624 | 8,908 | 101 | 54 |
| 06/83 | 32 | 4,779 | 9,738 | 117 | 57 |
| 07/83 | 34 | 4,868 | 9,342 | 99 | 37 |
| 08/83 | 33 | 4,902 | 9,991 | 118 | 58 |
| 09/83 | 33 | 4,826 | 9,790 | 114 | 51 |
| 10/83 | 31 | 4,672 | 9,130 | 96 | 52 |
| 11/83 | 28 | 4,564 | 9,149 | 99 | 52 |
| 12/83 | 28 | 4,562 | 9,486 | 88 | 52 |
| Total: | (X) | (X) | $107,727 | 1,211 | 626 |

TABLE XX - 2
(cont.)

| Date | Mills Operating at Normal Levels (number) | Total Production Workers* | Total Production Wages* (000) | Lumber Production (MMBF)** | Plywood Production (MMSF)*** |
|---|---|---|---|---|---|
| 01/84 | 29 | 4,569 | $ 9,296 | 106 | 53 |
| 02/84 | 32 | 4,602 | 8,869 | 111 | 54 |
| 03/84 | 32 | 4,685 | 9,770 | 127 | 57 |
| 04/84 | 31 | 4,700 | 9,181 | 116 | 52 |
| 05/84 | 31 | 4,696 | 9,542 | 110 | 56 |
| 06/84 | 28 | 4,723 | 9,396 | 106 | 39 |
| 07/84 | 28 | 4,749 | 8,849 | 95 | 48 |
| 08/84 | 29 | 4,787 | 10,234 | 109 | 56 |
| 09/84 | 28 | 4,629 | 9,334 | 99 | 49 |
| Total: | (X) | (X) | $84,471 | 979 | 464 |

(X) - not applicable

NOTE: The mills included in the survey account for approximately 90 percent of the total production of the wood products industry in the state.

* includes production workers at sawmills, plywood plants, pulp & board mills, & utility pole plants. Does not include nonproduction workers (such as managers, clerical workers, or private contractors).
** million board feet, lumber tally
***million square feet, 3/8-inch basis

SOURCE: Bureau of Business & Economic Research, Forest Industries Information System, University of Montana, 1984.

# TABLE XX - 3

## NUMBER OF ACTIVE WOOD PRODUCTS PLANTS BY COUNTY & PRODUCT PRODUCED IN MONTANA: 1981

| County | Lumber | Plywood | Particleboard & Fiberboard | Pulp & Paper | Posts & Poles | House Logs | Cedar Products | Utility Poles |
|---|---|---|---|---|---|---|---|---|
| Beaverhead | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Broadwater | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Carter | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cascade | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Custer | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fergus | 5 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| Flathead | 31 | 2 | 1 | 0 | 6 | 3 | 1 | 1 |
| Gallatin | 3 | 0 | 0 | 0 | 2 | 3 | 0 | 0 |
| Granite | 5 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Hill | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Jefferson | 3 | 0 | 0 | 0 | 2 | 1 | 0 | 0 |
| Judith Basin | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Lake | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Lewis & Clark | 7 | 0 | 0 | 0 | 2 | 1 | 0 | 0 |
| Lincoln | 6 | 1 | 0 | 0 | 0 | 0 | 5 | 0 |
| Madison | 3 | 0 | 0 | 0 | 2 | 1 | 0 | 0 |
| Meagher | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Mineral | 5 | 0 | 0 | 0 | 1 | 0 | 1 | 0 |
| Missoula | 9 | 1 | 1 | 1 | 2 | 4 | 1 | 0 |
| Musselshell | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Park | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Powell | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Powder River | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ravalli | 8 | 0 | 0 | 0 | 3 | 12 | 0 | 0 |
| Rosebud | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sanders | 11 | 0 | 0 | 0 | 1 | 2 | 0 | 0 |
| Silver Bow | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| Stillwater | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

TABLE XX - 3
(cont.)

| County | Lumber | Plywood | Particleboard & Fiberboard | Pulp & Paper | Posts & Poles | House Logs | Cedar Products | Utility Poles |
|---|---|---|---|---|---|---|---|---|
| Sweet Grass | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Teton | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Treasure | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wheatland | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| Yellowstone | 2 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| State Totals: | 142 | 4 | 2 | 1 | 35 | 27 | 8 | 3 |

SOURCE: Keegan, Jackson & Johnson, Montana's Forest Products Industry, 1983, p. 7.

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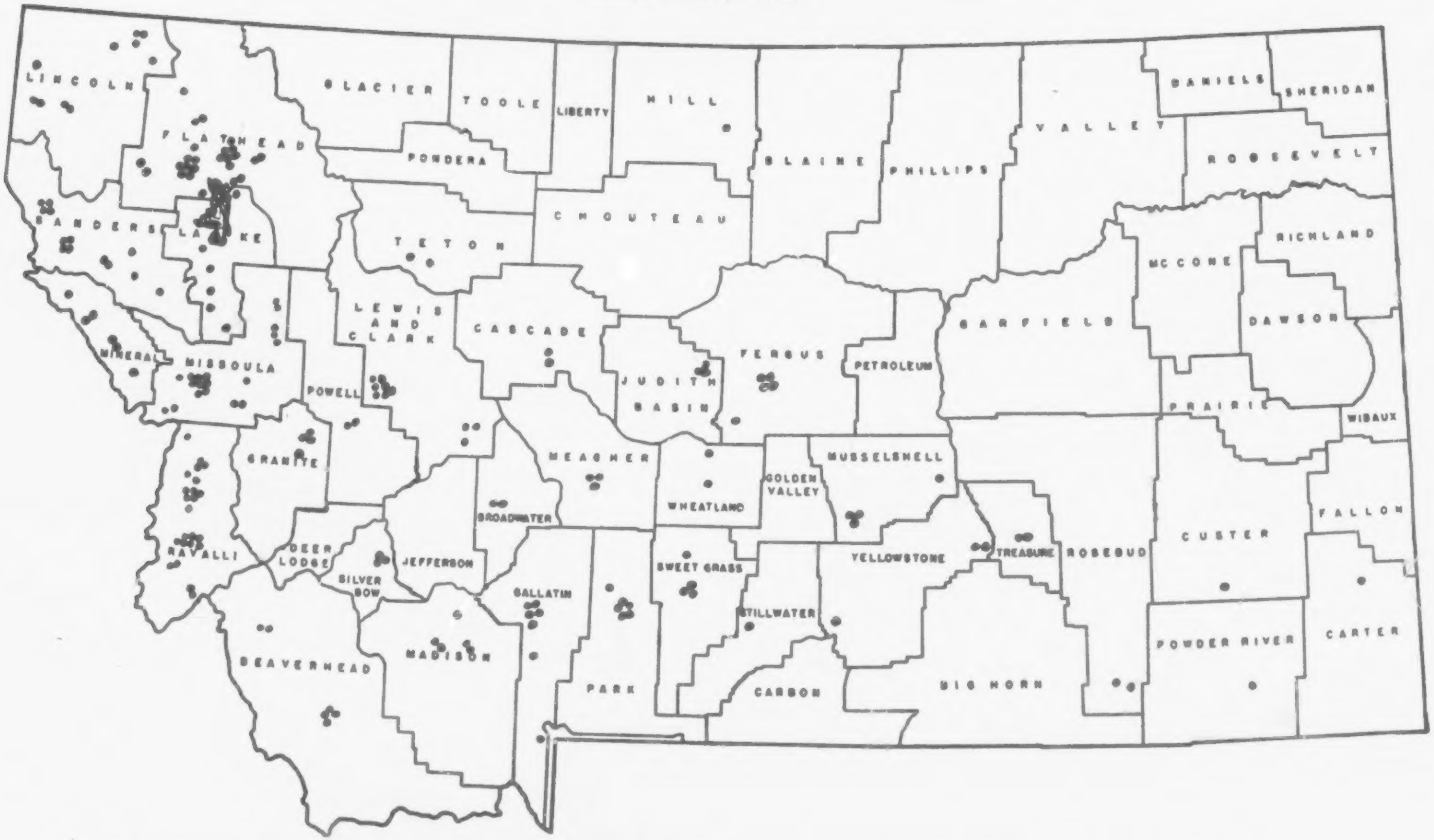
FIGURE XX-3

Location of Active Wood Products Plants
Montana, 1981


LINCOLN
FLATHEAD
GLACIER
TOOLE
LIBERTY
HILL
DANIELS
SHERIDAN
VALLEY
ROOSEVELT
PONDERA
BLAINE
PHILLIPS
SANDERS
LAKE
TETON
CHOUTEAU
RICHLAND
MC CONE
LEWIS AND CLARK
CASCADE
GARFIELD
DAWSON
MINERAL
MISSOULA
POWELL
JUDITH BASIN
FERGUS
PETROLEUM
PRAIRIE
WIBAUX
GRANITE
MEAGHER
WHEATLAND
GOLDEN VALLEY
MUSSELSHELL
BROADWATER
FALLON
RAVALLI
DEER LODGE
SILVER BOW
JEFFERSON
SWEET GRASS
YELLOWSTONE
TREASURE
ROSEBUD
CUSTER
GALLATIN
STILLWATER
BEAVERHEAD
MADISON
PARK
CARBON
BIG HORN
POWDER RIVER
CARTER

Source: University of Montana, Bureau of Business and Economic Research, Montana Forest Industries Data Collection System (Missoula, Montana, 1983).

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TABLE XX - 4

SALES VALUE OF MANUFACTURED WOOD PRODUCTS IN MONTANA
1976 & 1981
(in millions of 1981 dollars)

| Product | 1976 | 1981 | Percent of Total 1976 | Percent of Total 1981 |
|---|---|---|---|---|
| Lumber, structural timbers, & railroad ties | $281.2 | $220.2 | 48 | 39 |
| Plywood | 121.3 | 93.8 | 21 | 17 |
| Pulp, paper, particleboard, & fiberboard | 150.6 | 213.8 | 26 | 38 |
| House logs | 7.5 | 7.7 | 1 | 1 |
| Post & poles | 2.6 | 5.5 | 1 | 1 |
| Cedar Products | 3.0 | 3.9 | 1 | 1 |
| All other manufactured wood products | 13.5 | 16.5 | 2 | 3 |
| State Totals: | $597.7 | $561.4 | 100 | 100 |

NOTE: All sales are reported F.O.B. manufacturer's plant. Other manufactured wood products include laminated beams, molding, cut stock, utility poles, & other wood products manufactured at the primary processing facility. Dollar figures deflated by the producer price deflator for lumber & wood products & pulp, paper & allied products. The percentage detail may not add to 100 because of rounding.

SOURCE: Keegan, Jackson & Johnson, Montana's Forest Products Industry, 1983, p. 8.

TABLE XX - 5

NUMBER OF SAWMILLS BY SIZE OF PRODUCTION, MONTANA
SELECTED YEARS 1956 - 1981

| | Annual Production | | | |
|---|---|---|---|---|
| Year | Under 10 MMBF | 10 MMBF to 50 MMBF | Over 50 MMBF | Total Mills |
| 1956 | 304 | 26 | --* | 330 |
| 1966 | 111 | 37 | --* | 148 |
| 1973 | 86 | 22 | 7 | 115 |
| 1976 | 68 | 24 | 6 | 98 |
| 1981 | 114 | 23 | 5 | 142 |

* Mills with lumber production in excess of 50 MMBF have been included in the 10 MMBF to 50 MMBF category for these years.

SOURCE: Keegan, Jackson & Johnson, Montana Forest Products Industry, 1983, p. 12. Based on [1956 & 1973] Dennis L. Schweitzer, Robert E. Benson & Richard McConnen, A Descriptive Analysis of Montana's Forest Resources, Resource Bulletin INT-11 (Ogden, Utah: U.S. Dept. of Agriculture, Forest Service, Intermountain Forest & Range Experiment Station, January, 1975). [1966] Theodore Setzer & Alvin K. Wilson, Timber Products in the Rocky Mountain States, 1966, Resource Bulletin INT-9 (Ogden, Utah: U.S. Dept. of Agriculture, Forest Service, Intermountain Forest & Range Experiment Station, 1970). [1976, 1981] Bureau of Business & Economic Research, University of Montana, Montana Forest Industries Data Collection System [Missoula, Montana, 1983].

## TABLE XX - 6

## MONTANA LUMBER PRODUCTION BY COUNTY: 1975 - 1983
(in million board feet)

| County | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|---|---|---|
| Beaverhead-Callatin-Madison-Park | 57 | 82 | 111 | 104 | 97 | 62 | 90 | 82 | 133 |
| Broadwater-Fergus-Jefferson-Judith Basin-Lewis & Clark-Meagher-Teton-Wheatland | 80 | 77 | 89 | 105 | 108 | 83 | 86 | 67 | 80 |
| Carbon-Musselshell-Powder River-Rosebud-Stillwater | 12 | 9 | 7 | 6 | 8 | 6 | 7 | 5 | 6 |
| Flathead | 149 | 201 | 184 | 196 | 215 | 213 | 210 | 181 | 287 |
| Granite-Powell-Ravalli | 100 | 110 | 111 | 122 | 108 | 92 | 70 | 52 | 92 |
| Lake-Mineral-Sanders | 232 | 239 | 251 | 242 | 221 | 153 | 176 | 146 | 231 |
| Lincoln | 178 | 232 | 240 | 217 | 235 | 149 | 187 | 161 | 248 |
| Missoula | 230 | 247 | 257 | 264 | 265 | 225 | 206 | 201 | 239 |
| Total: | 1,038 | 1,197 | 1,250 | 1,256 | 1,257 | 983 | 1,032 | 895 | 1,316 |

SOURCE: Western Wood Products Association, 1983 Statistical Yearbook of the Western Lumber Industry, August 1984, p. 23.

## TABLE XX - 7

## MONTANA LUMBER PRODUCTION BY COUNTY & SPECIES: 1983
(in million board feet)

| County | Total | Ponderosa Pine | Douglas Fir & Larch | Hem-Fir | Idaho White Pine | Sugar Pine | Engel. Spruce | Ldgpl. Pine | Other |
|---|---|---|---|---|---|---|---|---|---|
| Beaverhead-Gallatin-Madison-Park | 133 | 0 | 38 | 0 | 0 | 0 | 11 | 29 | 55 |
| Broadwater-Fergus-Jefferson-Judith Basin-Lewis & Clark-Meagher-Wheatland | 80 | 9 | 32 | 0 | 0 | 0 | 0 | 21 | 18 |
| Musselshell-Powder River-Rosebud | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Flathead | 287 | 22 | 83 | (Z) | 9 | 0 | 21 | 89 | 63 |
| Granite-Powell-Ravalli | 92 | 5 | 31 | 4 | 0 | 0 | 0 | 45 | 7 |
| Lake-Mineral-Sanders | 231 | 35 | 94 | 28 | 7 | 0 | 33 | 23 | 11 |
| Lincoln | 248 | 29 | 70 | 2 | 4 | 0 | 32 | 60 | 51 |
| Missoula | 239 | 88 | 85 | 17 | 0 | 0 | 29 | 20 | 0 |
| Total: | 1,316 | 194 | 433 | 51 | 20 | 0 | 126 | 287 | 205 |

(Z) - less than 500,000 board feet

NOTE: Because of rounding, county figures may not add to totals.

SOURCE: Western Wood Products Association, 1983 Statistical Yearbook of the Western Timber Industry, August 1984, p. 21.

# TABLE XX - 8

## LUMBER PRODUCTION IN LEADING STATES: 1974-82
(million board feet)

| State | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
|---|---|---|---|---|---|---|---|---|---|
| Oregon* | 7,007 | 6,342 | 7,335 | 7,509 | 7,416 | 7,312 | 5,784 | 5,115 | 4,682 |
| California* | 4,599 | 4,153 | 4,824 | 5,052 | 4,853 | 4,639 | 3,768 | 3,224 | 2,987 |
| Washington | 3,222 | 3,104 | 3,661 | 4,031 | 4,150 | 3,841 | 3,161 | 3,243 | 3,059 |
| Idaho | 1,626 | 1,631 | 1,908 | 1,976 | 1,932 | 1,893 | 1,391 | 1,319 | 1,245 |
| Montana | 1,165 | 1,038 | 1,197 | 1,250 | 1,256 | 1,257 | 983 | 1,032 | 895 |
| Alabama | 1,224 | 1,161 | 1,275 | 1,312 | 1,316 | 1,305 | 1,104 | 909 | 875 |
| Arkansas | 1,221 | 1,259 | 1,320 | 1,520 | 1,577 | 1,428 | 1,424 | 1,005 | 948 |
| North Carolina | 1,223 | 1,078 | 1,177 | 1,174 | 1,210 | 1,246 | 1,116 | 865 | 783 |
| Georgia | 1,085 | 1,127 | 1,251 | 1,285 | 1,303 | 1,373 | 1,121 | 1,653 | 1,347 |
| Virginia | 984 | 867 | 919 | 957 | 982 | 1,166 | (NA) | (NA) | (NA) |
| Mississippi | 971 | 979 | 1,146 | 1,230 | 1,315 | 1,258 | 1,102 | 1,362 | 1,102 |
| Louisiana | 704 | 678 | 742 | 827 | 756 | 682 | 547 | 490 | 504 |
| Texas | 769 | 800 | 861 | 913 | 950 | 862 | 802 | 647 | 686 |
| South Carolina | 940 | 883 | 955 | 973 | 1,021 | 1,021 | 919 | 754 | 711 |
| Tennessee | 768 | 400 | 466 | 599 | 624 | 655 | 620 | 335 | 331 |
| Pennsylvania | 569 | 474 | 545 | 547 | 558 | 569 | (NA) | (NA) | (NA) |
| Kentucky | 468 | 411 | 423 | 421 | 423 | 415 | 403 | 154 | 166 |
| West Virginia | 381 | 377 | 406 | 406 | 406 | 540 | (NA) | (NA) | (NA) |
| Michigan | 351 | 317 | 334 | 350 | 365 | 374 | (NA) | (NA) | (NA) |
| Arizona | 306 | 316 | 380 | 392 | 350 | 337 | 301 | 275 | 249 |
| New York | 283 | 242 | 280 | 308 | 311 | 304 | (NA) | (NA) | (NA) |
| Florida | 334 | 278 | 316 | 325 | 329 | 319 | (NA) | (NA) | (NA) |
| Maine | 371 | 365 | 442 | 460 | 522 | 486 | (NA) | (NA) | (NA) |
| New Mexico | 222 | 210 | 242 | 250 | 244 | 227 | 175 | 209 | 182 |
| Wisconsin | 367 | 370 | 423 | 494 | 507 | 499 | (NA) | (NA) | (NA) |
| Colorado | 185 | 181 | 230 | 246 | 189 | 170 | 157 | 128 | 118 |
| Ohio | 211 | 170 | 186 | 181 | 201 | 218 | (NA) | (NA) | (NA) |
| Wyoming | 169 | 162 | 201 | 225 | 202 | 198 | 176 | 197 | 135 |
| Oklahoma | 215 | 229 | 204 | 288 | 288 | 256 | 161 | 179 | 165 |

* Includes Nevada.

NA - Not available

SOURCE: Western Wood Products Association, 1983 Statistical Yearbook of the Western Lumber Industry, August 1984, p. 27. Based on Western States - Western Wood Products Association and California Redwood Association; other U.S. states - Bureau of the Census, Current Industrial Reports, Lumber Production and Mill Stocks, Series MA-24T.

## TABLE XX - 9

## LUMBER OUTPUT BY SIZE OF MILL, MONTANA
## SELECTED YEARS 1956 - 1981

| Year | Percentage of Total Lumber Output: Mills with Annual Production Below 10 MMBF | Percentage of Total Lumber Output: Mills with Annual Production 10 MMBF & Above | Total Lumber Output (MMBF) |
|---|---|---|---|
| 1956 | 33 | 67 | 979 |
| 1962 | 13 | 87 | 1,259 |
| 1966 | 10 | 90 | 1,375 |
| 1976 | 4 | 96 | 1,176 |
| 1981 | 8 | 92 | 1,071 |

NOTE: MMBF denotes million board feet, lumber tally

SOURCE: Keegan, Jackson, and Johnson, Montana's Forest Products Industry, 1983, p. 13. Based on [1956, 1962, and 1966] Theodore Setzer and Alvin K. Wilson, Timber Products in the Rocky Mountain States, 1966, Resource Bulletin INT-9 (Ogden, Utah: U.S. Dept. of Agriculture, Forest Service, Intermountain Forest and Range Experiment Station, 1970). [1976, 1981] Bureau of Business and Economic Research, University of Montana, Montana Forest Industries Data Collection System (Missoula, Montana, 1983).

## TABLE XX - 10

## MOVEMENT OF ROUNDWOOD PRODUCTS IN MONTANA BY COUNTIES OF ORIGIN & RECEIPT: 1981

(thousand board feet, Scribner)

| | County or State of Destination | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| County of Origin | Lincoln | Flathead | Mineral and Sanders | Lake and Missoula | Ravalli | Beaverhead and Madison | Granite Powell and Silver Bow | Broadwater Lewis & Clark and Meagher | Gallatin | Park | Other Counties | Other States | Total |
| Lincoln | 175,625 | 32,622 | 1,282 | 24,979 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32,472 | 266,980 |
| Flathead | 1,572 | 188,541 | 1,292 | 51,413 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,700 | 244,518 |
| Sanders | 501 | 0 | 49,403 | 41,896 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 843 | 92,643 |
| Lake | 0 | 3,063 | 0 | 25,127 | 0 | 0 | 0 | 0 | 68 | 0 | 0 | 0 | 28,258 |
| Mineral | 0 | 0 | 23,177 | 21,869 | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45,107 |
| Missoula | 0 | 0 | 0 | 115,616 | 1,235 | 0 | 0 | 2,264 | 323 | 0 | 0 | 386 | 119,824 |
| Ravalli | 0 | 0 | 0 | 20,183 | 20,837 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41,020 |
| Powell | 0 | 100 | 0 | 14,948 | 0 | 0 | 2,628 | 2,223 | 25 | 0 | 107 | 0 | 20,031 |
| Granite | 0 | 0 | 0 | 14,491 | 98 | 1,735 | 6,565 | 486 | 10 | 0 | 0 | 0 | 23,335 |
| Deer Lodge | 0 | 0 | 0 | 32 | 0 | 0 | 7,544 | 0 | 97 | 0 | 0 | 0 | 7,673 |
| Silver Bow | 0 | 0 | 0 | 0 | 317 | 1,907 | 20 | 0 | 167 | 0 | 145 | 0 | 2,556 |
| Beaverhead | 0 | 0 | 0 | 385 | 1,421 | 7,268 | 0 | 0 | 5 | 0 | 0 | 841 | 9,920 |
| Madison | 0 | 0 | 0 | 0 | 80 | 2,967 | 0 | 0 | 0 | 0 | 0 | 0 | 3,047 |
| Lewis & Clark | 0 | 0 | 0 | 8,841 | 0 | 0 | 0 | 17,388 | 107 | 0 | 0 | 0 | 26,336 |
| Jefferson | 0 | 0 | 0 | 0 | 0 | 0 | 2,786 | 4,058 | 206 | 0 | 482 | 0 | 7,532 |
| Broadwater | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,209 | 3,750 | 0 | 0 | 0 | 6,959 |
| Meagher | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16,448 | 26 | 0 | 36 | 0 | 16,510 |
| Gallatin | 0 | 0 | 0 | 0 | 1,889 | 76 | 0 | 0 | 7,344 | 26,439 | 0 | 500 | 36,248 |
| Park | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 107 | 1,657 | 6,553 | 0 | 0 | 8,317 |
| Other Counties | 0 | 0 | 0 | 101 | 0 | 312 | 0 | 1,178 | 0 | 2,249 | 23,373 | 1,000 | 28,213 |
| Other States | 0 | 0 | 20,566 | 13,816 | 11,660 | 1,079 | 25 | 0 | 29 | 5,000 | 0 | 0 | 52,175 |
| Total. | 177,698 | 224,326 | 95,720 | 353,697 | 37,598 | 15,344 | [illegible]568 | 47,361 | 13,814 | 40,241 | 24,143 | 37,742 | 1,087,252 |

SOURCE: Keegan, Jackson, and Johnson, Montana's Forest Products Industry, 1983, p. 34.

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## TABLE XX - 11

## DESTINATION OF PRIMARY WOOD PRODUCTS SHIPMENTS IN MONTANA BY VALUE OF SHIPMENT: 1981

| Product | Montana | Rocky Mountain | Far West | North Central | South | Northeast | Canada | Unknown | All Destinations |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Thousands of Dollars | | | | | |
| Lumber | $27,141 | $32,570 | $17,833 | $75,943 | $24,169 | $11,053 | $4,579 | $22,066 | $215,354 |
| Plywood | 3,489 | 11,426 | 16,275 | 33,241 | 8,474 | 13,962 | 6,905 | 0 | 93,772 |
| Pulp, paper, particleboard & fiberboard | 1,019 | 28,484 | 85,582 | 72,605 | 15,983 | 6,888 | 3,198 | 0 | 213,759 |
| House logs | 1,387 | 1,645 | 1,428 | 2,672 | 399 | 100 | 0 | 100 | 7,731 |
| Posts & poles | 2,152 | 556 | 1,029 | 860 | 0 | 0 | 146 | 715 | 5,458 |
| Structural timbers & railroad ties | 4,082 | 534 | 35 | 84 | 35 | 18 | 72 | 0 | 4,860 |
| Cedar products | 223 | 878 | 100 | 1,376 | 823 | 527 | 0 | 0 | 3,927 |
| All other manufactured wood products | 1,637 | 2,054 | 421 | 4,016 | 4,680 | 3,392 | 317 | 24 | 16,541 |
| Total | $41,130 | $78,147 | $122,703 | $190,797 | $54,563 | $35,940 | $15,217 | $22,905 | $561,402 |
| | | | | Percentage of Total | | | | | |
| Lumber | 13 | 15 | 8 | 35 | 11 | 5 | 2 | 10 | 100 |
| Plywood | 4 | 12 | 17 | 35 | 9 | 15 | 7 | 0 | 100 |
| Pulp, paper, particleboard & fiberboard | (Z) | 13 | 40 | 34 | 7 | 3 | 1 | 0 | 100 |
| House logs | 18 | 21 | 18 | 35 | 5 | 1 | 0 | 1 | 100 |
| Posts & poles | 39 | 10 | 19 | 16 | 0 | 0 | 3 | 13 | 100 |
| Structural timbers & railroad ties | 84 | 11 | 1 | 2 | 1 | (Z) | 1 | 0 | 100 |
| Cedar products | 6 | 22 | 3 | 35 | 21 | 13 | 0 | 0 | 100 |
| All other manufactured wood products | 10 | 12 | 3 | 24 | 28 | 21 | 2 | (Z) | 100 |
| Total | 7 | 14 | 22 | 34 | 10 | 6 | 3 | 4 | 100 |

(Z) - Less than 0.5 percent

SOURCE: Keegan, Jackson, and Johnson, Montana's Forest Products Industry, 1983, p. 49.

## TABLE XX - 12

## SAWTIMBER UTILIZED & ESTIMATED CAPACITY OF SAWMILLS, PLYWOOD PLANTS, UTILITY POLE PLANTS, & HOUSE LOG PLANTS MONTANA: 1976 & 1981

| Item | Sawmills | Plywood Plants | Utility Pole & House Log Plants | Total |
|---|---|---|---|---|
| 1976: | | | | |
| Capacity to Process Sawtimber* | 1,259 | 289 | 41 | 1,589 |
| Volume Processed* | 905 | 269 | 23 | 1,197 |
| Percentage of Total Capacity Utilized | 72% | 93% | 56% | 75% |
| 1981: | | | | |
| Capacity to Process Sawtimber* | 1,207 | 226 | 50 | 1,483 |
| Volume Processed* | 739 | 224 | 17 | 980 |
| Percentage of Total Capacity Utilized | 61% | 99% | 34% | 66% |

* in MMBF, Scribner

NOTE: Sawtimber refers to saw logs, veneer logs, utility poles, and house logs

SOURCE: Keegan, Jackson, & Johnson, Montana's Forest Products Industry, 1983, p. 53.

## TABLE XX - 13

### SAWTIMBER UTILIZED & ESTIMATED CAPACITY OF SAWMILLS, PLYWOOD PLANTS, UTILITY POLE & HOUSE LOG PLANTS BY COUNTY GROUP IN MONTANA: 1981

| County Group | Capacity to Process Sawtimber* | Volume Processed* | Percentage of Total Capacity Utilized | Unutilized Capacity |
|---|---|---|---|---|
| Flathead, Lake, Lincoln, & Sanders | 743 | 490 | 66 | 253 |
| Mineral, Missoula, & Ravalli | 399 | 324 | 81 | 75 |
| Beaverhead, Deer Lodge, Granite, Jefferson, Lewis & Clark, Madison, Silver Bow, & Powell | 100 | 63 | 63 | 37 |
| Broadwater, Gallatin, Meagher, & Park | 168 | 78 | 46 | 90 |
| All other counties | 73 | 25 | 34 | 48 |
| State Total: | 1,483 | 980 | 66 | 503 |

* in MMBF, Scribner

NOTE: Sawtimber refers to saw logs, veneer logs, utility poles, & house logs.

SOURCE: Keegan, Jackson, & Johnson, Montana's Forest Products Industry, 1983, p. 54.

## TABLE XX - 14

## SAWTIMBER UTILIZED & ESTIMATED CAPACITY OF SAWMILLS, PLYWOOD PLANTS, UTILITY POLE PLANTS, & HOUSE LOG PLANTS BY SIZE OF PLANT, MONTANA: 1981

| Size Class* | Number of Mills in Size Class | Capacity to Process Sawtimber** | Volume Processed** | Percentage of Total Capacity Utilized | Unutilized Capacity** |
|---|---|---|---|---|---|
| A (over 40 MMBF) | 11 | 699 | 540 | 77 | 159 |
| B (over 25 MMBF to 40 MMBF) | 11 | 321 | 208 | 65 | 113 |
| C (over 10 MMBF to 25 MMBF) | 15 | 300 | 167 | 56 | 133 |
| D (over 1 MMBF to 10 MMBF) | 43 | 132 | 52 | 39 | 80 |
| E (1 MMBF and below) | 96 | 31 | 13 | 42 | 18 |
| Totals: | 176 | 1,483 | 980 | 66 | 503 |

*
** Based upon annual capacity to process sawtimber in MMBF, Scribner

NOTE: Sawtimber refers to saw logs, veneer logs, utility poles, & house logs.

SOURCE: Keegan, Jackson, and Johnson, Montana's Forest Products Industry, 1983, p. 56.

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# CHAPTER XXI

# NONFUEL MINERALS

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## TABLE XXI - 1

## NONFUEL MINERAL PRODUCTION* IN MONTANA
(value in thousands of dollars)

| Mineral | Unit | 1982 Quantity | 1982 Value | 1983(P) Quantity | 1983(P) Value |
|---|---|---|---|---|---|
| Antimony | short tons | 209 | (D) | 250 | (D) |
| Clays | thousand short tons | 218 | **$ 8,064 | 194 | $ 6,205 |
| Copper*** | metric tons | 64,951 | 104,245 | 33,337 | 56,245 |
| Gem stones |  | (NA) | 225 | (NA) | 300 |
| Gold*** | troy ounces | 75,171 | 28,258 | 161,436 | 68,449 |
| Lead*** | metric tons | 661 | 372 | 1,163 | 556 |
| Lime | thousand short tons | 45 | 2,331 | 86 | (D) |
| Sand & Gravel (construction) |  | 5,338 | 12,794 | 5,000 | 10,200 |
| Silver*** | thousand troy ounces | 6,169 | 49,041 | 5,708 | 65,229 |
| Stone (crushed) | thousand short tons | (P)1,400 | (P)4,700 | 872 | 2,344 |
| Combined value of barite, cement, clays (fire clay, 1982), graphite, gypsum, iron ore, peat, phosphate, rock, sand & gravel (industrial), stone (dimension), talc, tungsten ore & concentrate (1982), vermiculite, zinc (1982), & values indicated by symbol (D) |  |  | 60,723 |  | 82,947 |
| Total: |  |  | 270,853 |  | 293,295 |

(P) - Preliminary

* Production as measured by mine shipments, sales, or marketable production (including consumption by producers).

** Excludes fire clay; value included with "Combined value" figure.

*** Recoverable content of ores, etc.

SOURCES: Bureau of Mines, Mineral Industry Surveys, U.S. Dept. of the Interior, The Mineral Industry of Montana in 1983. Bureau of Mines, U.S. Dept. of the Interior, unpublished data.

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# CHAPTER XXII

# AGRICULTURE

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## TABLE XXII - 1

## ESTIMATES OF NUMBER OF MONTANA FARM RESIDENTS: 1970 & 1980
(based on 1970 definition of farm*)

| Item | 1970 | 1980 |
|---|---|---|
| Farm Population | 82,129 | 67,546 |
| Percent of the Total Population | 11.8% | 8.6% |

* In 1970 a farm was defined as a place in rural territory with at least $250 in sales of farm products, plus additional places with 10 or more acres and $50 or more in sales of farm products.

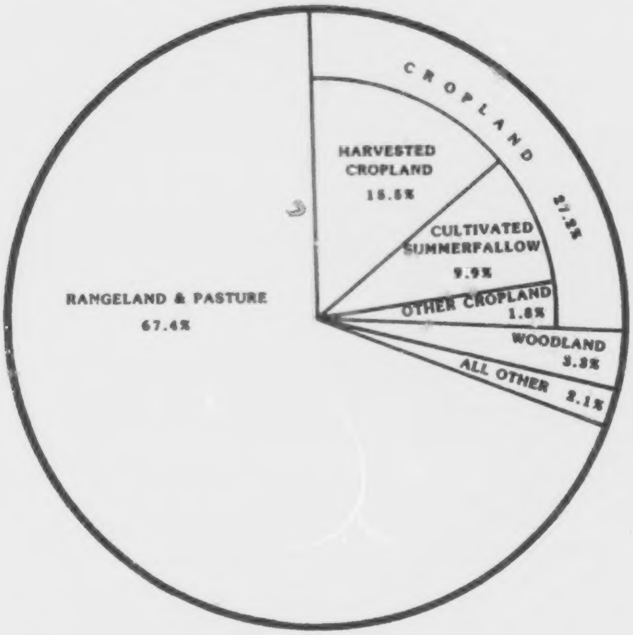
SOURCE: U.S. Bureau of the Census, Census of Population: 1980, Computer Tape; 1970, Supplementary Report PC(S1)-27.

## FIGURE XXII-1

## LAND IN FARMS & RANCHES (61.3 Million Acres in 1983)

**Utilization as Percentage of Total**

1982



*Source: Montana Crop and Livestock Reporting Service.*

## TABLE XXII - 2

## MONTANA'S RANK IN THE NATION'S AGRICULTURE AND SELECTED RECORD PRODUCTION

| Item | Unit (000) | Period or Date | Rank |
|---|---|---|---|
| Cropland in cultivated summerfallow | 5,557 acres | 1978 Census | 3 |
| Land in farms & ranches | 61,300 acres | 1983 | 2 |
| Income from cash receipts, excluding Government payments: | | | |
| Total | $1,503,303 | 1983 | 32 |
| Crops | $846,939 | 1983 | 30 |
| Livestock | $656,364 | 1983 | 32 |
| Livestock & Livestock Products: | | | |
| All cattle & calves | 3,150 head | 1/1/84 | 11 |
| All cows | 1,666 head | 1/1/84 | 6 |
| Milk cows | 29 head | 1/1/84 | 44 |
| Beef cows | 1,637 head | 1/1/84 | 6 |
| Cattle on feed | 80 head | 1/1/84 | 23 |
| Hogs & pigs | 180 head | 12/1/83 | 28 |
| Sheep & lambs | 509 head | 1/1/84 | 8 |
| Wool production | 5,141 pounds | 1982 | 7 |
| All chickens | 940 birds | 12/1/83 | 41 |
| Crop Production: | | | |
| All wheat | 136,930 bushels | 1983 | 6 |
| Winter wheat | 79,100 bushels | 1983 | 7 |
| Durum wheat | 4,100 bushels | 1983 | 4 |
| Spring wheat other than durum | 53,730 bushels | 1983 | 3 |
| All hay | 4,158 tons | 1983 | 15 |
| Alfalfa hay | 2,688 tons | 1983 | 11 |
| Dry beans | 37 cwt | 1983 | 16 |
| Barley | 77,700 bushels | 1983 | 2 |
| Oats | 5,280 bushels | 1983 | 14 |
| Potatoes (fall) | 1,800 cwt | 1983 | 20 |
| Sugarbeets | 818 tons | 1983 | 7 |

## TABLE XXII - 2
(cont.)

| Item | Record Highs<br>Size & Unit<br>(000) | Period or Date |
|---|---|---|
| **Livestock:** | | |
| Cattle & calves | 3,380 head | 1/1/74 |
| Sheep & lambs | 5,736 head | 1/1/03 |
| Hogs & pigs | 445 head | 1/1/44 |
| Chickens | 2,738 birds | 1/1/44 |
| Honey production | 13,184 pounds | 1979 |
| **Crops:** | | |
| All wheat | 183,560 bushels | 1982 |
| Winter wheat | 105,000 bushels | 1975 |
| All spring wheat, including durum | 92,800 bushels | 1982 |
| Durum wheat | 18,093 bushels | 1956 |
| Barley | 77,700 bushels | 1983 |
| Oats | 25,650 bushels | 1915 |
| All hay | 5,105 tons | 1982 |
| Sugarbeets | 1,206 tons | 1969 |
| Potatoes | 2,871 cwt | 1918 |

SOURCE: Pratt and Lies, Montana Agricultural Statistics, 1984, p. 8.

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# TABLE XXII - 3

## HIGHLIGHTS OF MONTANA'S AGRICULTURE: 1982 & 1978
(current dollars)

| Item | All Farms 1982 | All Farms 1978 | All Farms Percent Change 1978-82 | Farms w/Sales of $10,000 or More 1982 | Farms w/Sales of $10,000 or More 1978 | Farms w/Sales of $10,000 or More Percent Change 1978-82 |
|---|---|---|---|---|---|---|
| Farms, number | 23,570 | 23,565 | (Z) | 15,467 | 16,081 | -3.8 |
| Land in farms, acres | 60,539,209 | 61,690,919 | -1.9 | 53,404,255 | 54,207,046 | -1.5 |
| Avg. size of farm, acres | 2,568 | 2,618 | -1.9 | 3,453 | 3,371 | 2.4 |
| Value of land & buildings:* | | | | | | |
| Avg. per farm, dollars | 677,995 | 512,791 | 32.2 | 906,576 | 648,660 | 39.8 |
| Avg. per acre, dollars | 259 | 195 | 32.8 | 259 | 193 | 34.2 |
| Farms by size: | | | | | | |
| 1-9 acres | 1,551 | 1,255 | 23.6 | 347 | 331 | 4.8 |
| 10-49 acres | 2,673 | 1,889 | 41.5 | 299 | 203 | 47.3 |
| 50-179 acres | 3,080 | 2,987 | 3.1 | 908 | 848 | 7.1 |
| 180-499 acres | 3,097 | 3,420 | -9.4 | 1,866 | 1,926 | -3.1 |
| 500-999 acres | 2,640 | 2,928 | -9.8 | 2,104 | 2,282 | -7.8 |
| 1,000-1,999 acres | 3,345 | 4,011 | -16.6 | 3,036 | 3,684 | -17.6 |
| 2,000 or more acres | 7,184 | 7,075 | 1.5 | 6,907 | 6,807 | 1.5 |
| Harvested cropland: | | | | | | |
| Farms | 19,279 | 20,313 | -5.1 | 14,389 | 15,103 | -4.7 |
| Acres | 9,365,775 | 8,741,043 | 7.1 | 9,079,352 | 8,402,653 | 8.1 |
| Irrigated land: | | | | | | |
| Farms | 9,226 | 9,384 | -1.7 | 6,161 | 6,422 | -4.1 |
| Acres | 2,023,003 | 2,069,531 | -2.2 | 1,877,642 | 1,914,430 | -1.9 |
| Market value of agricultural products sold ($000) | 1,547,160 | 1,177,454 | 31.4 | 1,509,841 | 1,144,581 | 31.9 |
| Crops, including nursery & greenhouse products: | | | | | | |
| Farms | 14,227 | 15,191 | -6.3 | 11,515 | 12,004 | -4.1 |
| Dollars (000) | 759,171 | 488,486 | 55.4 | 747,292 | 476,416 | 56.9 |
| Livestock, poultry & their products: | | | | | | |
| Farms | 17,175 | 17,448 | -1.6 | 11,689 | 12,310 | -5.0 |
| Dollars (000) | 787,989 | 688,968 | 14.4 | 762,549 | 668,165 | 14.1 |
| Farms by Standard Industrial Classification: | | | | | | |
| Cash grains (011) | 7,579 | 7,627 | -0.6 | 6,683 | 6,368 | 4.9 |
| Field crops, except cash grains (013) | 1,696 | 1,884 | -10.0 | 748 | 876 | -14.6 |
| Vegetables & melons (016) | 30 | 34 | -11.8 | 7 | 5 | 40.0 |
| Fruits & tree nuts (017) | 208 | 173 | 20.2 | 79 | 43 | 83.7 |
| Horticultural specialties (018) | 98 | 90 | 8.9 | 57 | 51 | 11.8 |
| General farms, primarily crop (019) | 717 | 553 | 29.7 | 337 | 331 | 1.8 |
| Livestock, except dairy, poultry, & animal specialties (021) | 11,567 | 12,064 | -4.1 | 7,055 | 7,918 | -10.9 |
| Dairy farms (024) | 319 | 309 | 3.2 | 273 | 274 | -0.4 |
| Poultry & eggs (025) | 78 | 64 | 21.9 | 15 | 20 | -25.0 |
| Animal specialties (027) | 931 | 492 | 89.2 | 153 | 136 | 12.5 |
| General farms, primarily livestock (029) | 347 | 275 | 26.2 | 60 | 59 | 1.7 |

# TABLE XXII - 3
(cont.)

| Item | All Farms 1982 | All Farms 1978 | All Farms Percent Change 1978-82 | Farms w/Sales of $10,000 or More 1982 | Farms w/Sales of $10,000 or More 1978 | Farms w/Sales of $10,000 or More Percent Change 1978-82 |
|---|---|---|---|---|---|---|
| Tenure of operator: | | | | | | |
| Full owners | 11,662 | 10,892 | 7.1 | 5,768 | 5,649 | 2.1 |
| Part owners | 9,239 | 9,908 | -6.8 | 7,892 | 8,594 | -8.2 |
| Tenants | 2,669 | 2,765 | -3.5 | 1,807 | 1,838 | -1.7 |
| Operators by principal occupation: | | | | | | |
| Farming | 16,898 | 16,855 | 0.3 | 13,732 | 13,869 | -1.0 |
| Other | 6,672 | 6,710 | -0.6 | 1,735 | 2,212 | -21.6 |
| Selected farm production expenses* ($000): | | | | | | |
| Feed for livestock & poultry | 110,919 | 108,728 | 2.0 | 105,021 | 103,588 | 1.4 |
| Commercial fertilizer | 79,823 | 64,950 | 22.9 | 78,713 | 62,899 | 25.1 |
| Other agricultural chemicals** | 43,347 | 27,945 | 55.1 | 42,305 | 26,832 | 57.7 |
| Energy & petroleum products | 157,696 | 89,523 | 76.2 | 150,390 | 83,981 | 79.1 |
| Hired farm labor | 84,462 | 70,884 | 19.2 | 81,737 | 68,879 | 18.7 |
| Livestock & poultry inventory: | | | | | | |
| Cattle & calves | | | | | | |
| Farms | 15,822 | 15,887 | -0.4 | 10,957 | 11,470 | -4.5 |
| Number | 2,918,599 | 2,786,829 | 4.7 | 2,764,110 | 2,661,144 | 3.9 |
| Milk cows | | | | | | |
| Farms | 2,594 | 3,183 | -18.5 | 1,823 | 2,328 | -21.7 |
| Number | 29,447 | 29,306 | 0.5 | 27,721 | 27,324 | 1.5 |
| Hogs & pigs | | | | | | |
| Farms | 1,643 | 2,433 | -32.5 | 1,163 | 1,723 | -32.5 |
| Number | 195,949 | 211,350 | -7.3 | 187,659 | 192,547 | -2.5 |
| Chickens 3+ months old | | | | | | |
| Farms | 2,824 | 3,130 | -9.8 | 1,615 | 2,045 | -21.0 |
| Number | 1,022,336 | 886,813 | 15.3 | 990,118 | 850,488 | 16.4 |
| Crops harvested: | | | | | | |
| Corn for silage or green chop | | | | | | |
| Farms | 686 | 906 | -24.3 | 661 | 843 | -21.6 |
| Acres | 54,679 | 72,257 | -24.3 | 53,815 | 70,350 | -23.5 |
| Wheat for grain | | | | | | |
| Farms | 9,982 | 10,726 | -6.9 | 9,174 | 9,468 | -3.1 |
| Acres | 5,215,965 | 4,799,795 | 8.7 | 5,141,650 | 4,677,191 | 9.9 |
| Barley for grain | | | | | | |
| Farms | 8,283 | 8,274 | 0.1 | 7,575 | 7,340 | 3.2 |
| Acres | 1,613,964 | 1,263,343 | 27.8 | 1,585,934 | 1,227,663 | 29.2 |
| Oats for grain | | | | | | |
| Farms | 3,118 | 3,473 | -10.2 | 2,796 | 3,085 | -9.4 |
| Acres | 168,097 | 173,074 | -2.9 | 161,189 | 163,936 | -1.7 |

## TABLE XXII - 3
(cont.)

| Item | All Farms 1982 | All Farms 1978 | All Farms Fercent Change 1978-82 | Farms w/Sales of $10,000 or More 1982 | Farms w/Sales of $10,000 or More 1978 | Farms w/Sales of $10,000 or More Percent Change 1978-82 |
|---|---|---|---|---|---|---|
| Sugar beets for sugar | | | | | | |
| Farms | 439 | 538 | -18.4 | 434 | 512 | -15.2 |
| Acres | 41,123 | 43,749 | -6.0 | 41,041 | 43,395 | -5.4 |
| Hay, alfalfa, other tame, small grain, wild, grass silage, green chop, etc. | | | | | | |
| Farms | 14,116 | 15,374 | -8.2 | 10,169 | 11,401 | -10.8 |
| Acres | 2,238,390 | 2,324,110 | -3.7 | 2,061,000 | 2,155,365 | -4.4 |

*
** Data are based on a sample of farms
Data for 1978 include the cost of lime which was not collected in 1982

SOURCE: U.S. Bureau of the Census, 1982 Census of Agriculture, Montana, p. viii.

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## TABLE XXII - 4

## MONTANA AGRICULTURE, BY TYPE OF OWNERSHIP
## 1978 & 1982

| | All Agricultural Units | | | Agricultural Units w/Sales of $10,000 or More | | |
|---|---|---|---|---|---|---|
| Ownership | 1978 | 1982 | Percent Change 1978-82 | 1978 | 1982 | Percent Change 1978-82 |
| Individual or Family | 19,042 | 18,842 | -1.1 | 12,286 | 11,524 | -6.2 |
| Partnership | 2,305 | 2,099 | -8.9 | 1,811 | 1,635 | -9.7 |
| Corporation | 2,012 | 2,336 | 16.1 | 1,932 | 2,185 | 13.1 |
| Other* | 206 | 293 | 42.2 | 52 | 123 | 136.5 |
| Total: | 23,565 | 23,570 | | 16,081 | 15,467 | |
| Percent Distribution: | | | | | | |
| Individual or Family | 80.8% | 79.9% | | 76.4% | 74.5% | |
| Partnership | 9.8% | 8.9% | | 11.3% | 10.6% | |
| Corporation | 8.5% | 9.9% | | 12.0% | 14.1% | |
| Other* | 0.9% | 1.2% | | 0.3% | 0.8% | |
| Total: | 100.0% | 100.0% | | 100.0% | 100.0% | |

* 'Other' includes cooperative, estate or trust, institutional, etc.

SOURCE: U.S. Bureau of the Census, 1982 Census of Agriculture, Montana, p. viii.

## TABLE XXII - 5

### NUMBER OF FARMS: 1910 - 1984
### ALL LAND IN FARMS & AVERAGE SIZE OF FARMS
### MONTANA: 1950-84

| Year | Number of Farms (000) | Year | Number of Farms (000) |
|---|---|---|---|
| 1910 | 28.8 | 1930 | 55.0 |
| 1911 | 31.5 | 1931 | 54.5 |
| 1912 | 34.0 | 1932 | 54.0 |
| 1913 | 37.0 | 1933 | 53.5 |
| 1914 | 40.0 | 1934 | 53.0 |
| 1915 | 45.0 | 1935 | 52.0 |
| 1916 | 50.0 | 1936 | 50.0 |
| 1917 | 54.0 | 1937 | 48.0 |
| 1918 | 56.0 | 1938 | 46.0 |
| 1919 | 57.0 | 1939 | 45.0 |
| 1920 | 57.7 | 1940 | 44.5 |
| 1921 | 57.0 | 1941 | 42.0 |
| 1922 | 55.0 | 1942 | 41.0 |
| 1923 | 52.5 | 1943 | 40.8 |
| 1924 | 51.0 | 1944 | 40.6 |
| 1925 | 50.0 | 1945 | 40.4 |
| 1926 | 51.0 | 1946 | 39.8 |
| 1927 | 52.5 | 1947 | 39.2 |
| 1928 | 53.5 | 1948 | 38.5 |
| 1929 | 54.0 | 1949 | 37.8 |

| Year | Number of Farms (000) | All Land in Farms (000 ac.) | Avg. Size of Farms (acres) |
|---|---|---|---|
| 1950 | 37.2 | 65,000 | 1,747 |
| 1951 | 36.8 | 65,200 | 1,772 |
| 1952 | 36.4 | 65,500 | 1,799 |
| 1953 | 35.9 | 65,800 | 1,833 |
| 1954 | 35.4 | 66,100 | 1,867 |
| 1955 | 34.8 | 66,100 | 1,899 |
| 1956 | 34.2 | 66,200 | 1,936 |
| 1957 | 33.6 | 66,300 | 1,973 |
| 1958 | 33.0 | 66,500 | 2,015 |
| 1959 | 32.4 | 66,600 | 2,056 |
| 1960 | 31.7 | 66,700 | 2,104 |
| 1961 | 30.8 | 66,800 | 2,169 |
| 1962 | 30.1 | 66,800 | 2,219 |

TABLE XXII - 5
(cont.)

| Year | Number of Farms (000) | All Land in Farms (000 ac.) | Avg. Size of Farms (acres) |
|---|---|---|---|
| 1963 | 29.5 | 66,800 | 2,264 |
| 1964 | 28.9 | 67,200 | 2,325 |
| 1965 | 28.4 | 66,700 | 2,349 |
| 1966 | 28.0 | 66,200 | 2,364 |
| 1967 | 27.6 | 65,700 | 2,380 |
| 1968 | 27.1 | 65,200 | 2,406 |
| 1969 | 26.7 | 64,700 | 2,423 |
| 1970 | 26.4 | 64,200 | 2,432 |
| 1971 | 26.0 | 63,700 | 2,450 |
| 1972 | 25.5 | 63,200 | 2,478 |
| 1973 | 25.1 | 63,000 | 2,510 |
| 1974 | 24.6 | 62,800 | 2,553 |
| 1975 | 23.4* | 62,200 | 2,693 |
| 1976 | 23.4 | 62,200 | 2,658 |
| 1977 | 23.5 | 62,100 | 2,643 |
| 1978 | 23.6 | 62,100 | 2,631 |
| 1979 | 23.7 | 62,100 | 2,620 |
| 1980 | 23.8 | 61,900 | 2,601 |
| 1981 | 23.9 | 61,700 | 2,582 |
| 1982 | 24.0 | 61,500 | 2,563 |
| 1983 | 24.0 | 61,300 | 2,554 |
| 1984 | 24.0 | 61,100 | 2,546 |

* Places which had annual sale of agricultural products of $1,000 or more. Series initiated with 1975.

SOURCE: Pratt and Lies, Montana Agricultural Statistics, 1984, p. 9.

## Table XXII-6

# Farms, Land in Farms, and Land Use: 1982 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text]

| All farms | | 1982 | 1978 | 1972 | 1969 | 1964 | 1959 | 1954 | 1950 |
|---|---|---|---|---|---|---|---|---|---|
| **FARMS AND LAND IN FARMS** | | | | | | | | | |
| Farms | number | 23 570 | 23 565 | 23 324 | 24 951 | 27 020 | 28 959 | 33 061 | 35 085 |
| Land in farms | acres | 60 539 209 | 61 690 919 | 62 158 351 | 62 918 247 | 65 833 760 | 64 061 391 | 61 468 903 | 59 247 434 |
| Average size of farm | acres | 2 568 | 2 618 | 2 665 | 2 522 | 2 437 | 2 213 | 1 859 | 1 689 |
| Approximate land area | acres | 93 048 416 | 93 176 320 | 93 157 952 | 93 157 952 | 93 271 040 | 93 271 040 | 93 361 920 | 93 361 920 |
| Proportion in farms | percent | 65.1 | 66.2 | 66.7 | 67.5 | 70.6 | 68.7 | 65.8 | 63.5 |
| Value of land and buildings[1]: | | | | | | | | | |
| Average per farm | dollars | 677 995 | 512 791 | 298 070 | 150 222 | 103 271 | 76 761 | 44 653 | 28 475 |
| Average per acre | dollars | 259 | 195 | 112 | 60 | 42 | 35 | 24 | 17 |
| Farms by value of land and buildings: | | | | | | | | | |
| $1 to $9,999 | | 823 | 153 | 575 | 1 258 | 1 770 | (NA) | (NA) | (NA) |
| $10,000 to $19,999 | | 330 | 453 | 904 | 1 697 | 2 834 | (NA) | (NA) | (NA) |
| $20,000 to $39,999 | | 717 | 1 415 | 2 042 | 3 666 | 5 147 | (NA) | (NA) | (NA) |
| $40,000 to $69,999 | | 1 852 | 1 740 | 2 756 | 4 406 | 5 326 | (NA) | (NA) | (NA) |
| $70,000 to $99,999 | | 1 462 | 1 561 | 2 237 | 3 175 | 3 485 | (NA) | (NA) | (NA) |
| $100,000 to $149,999 | | 2 145 | 2 520 | 2 767 | 3 440 | 3 350 | (NA) | (NA) | (NA) |
| $150,000 to $199,999 | | 1 873 | 1 919 | 2 272 | 2 290 | 1 919 | (NA) | (NA) | (NA) |
| $200,000 to $499,999 | | 5 768 | 7 071 | 6 414 | 3 979 | 2 645 | (NA) | (NA) | (NA) |
| $500,000 to $999,999 | | 4 361 | 3 965 | 3 357 | 1 018 | 542 | (NA) | (NA) | (NA) |
| $1,000,000 or more | | 4 251 | 2 769 | | | | (NA) | (NA) | (NA) |
| **LAND IN FARMS ACCORDING TO USE** | | | | | | | | | |
| Total cropland | farms | 20 717 | 21 437 | 21 366 | 22 709 | 25 212 | 27 486 | 31 218 | 33 331 |
| | acres | 16 452 331 | 16 232 608 | 15 445 720 | 16 106 575 | 16 366 431 | 16 077 767 | 14 506 369 | 13 926 526 |
| Harvested cropland | farms | 19 279 | 20 313 | 20 376 | 21 404 | 24 306 | 26 726 | 30 575 | 32 090 |
| | acres | 9 365 775 | 8 741 043 | 8 426 661 | 7 937 203 | 7 612 612 | 8 156 690 | 8 414 056 | 7 576 173 |
| Farms by acres harvested: | | | | | | | | | |
| 1 to 49 acres | | 3 977 | 3 643 | 3 199 | 3 266 | 4 124 | 4 655 | 5 770 | 7 137 |
| 1 to 9 acres | | 1 006 | 696 | 669 | 657 | 966 | 1 122 | 1 660 | 1 945 |
| 10 to 19 acres | | 1 054 | 862 | 739 | 732 | 837 | 1 017 | 1 105 | 1 398 |
| 20 to 29 acres | | 763 | 814 | 612 | 620 | 769 | 866 | 1 017 | 1 296 |
| 30 to 49 acres | | 1 154 | 1 269 | 1 159 | 1 259 | 1 532 | 1 650 | 1 968 | 2 496 |
| 50 to 99 acres | | 1 906 | 2 260 | 2 346 | 2 598 | 3 369 | 3 776 | 4 729 | 5 534 |
| 100 to 199 acres | | 2 789 | 3 264 | 3 542 | 3 966 | 4 840 | 5 510 | 6 495 | 6 996 |
| 200 to 499 acres | | 4 565 | 5 298 | 5 607 | 6 247 | 7 059 | 7 718 | 6 694 | 6 369 |
| 500 to 999 acres | | 3 413 | 3 651 | 3 692 | 3 722 | 3 606 | 3 677 | 3 778 | 3 201 |
| 1,000 acres or more | | 2 627 | 2 177 | 1 990 | 1 583 | 1 308 | 1 190 | 1 110 | 831 |
| 1,000 to 1,999 acres | | 1 936 | 1 685 | 1 589 | (NA) | (NA) | (NA) | (NA) | (NA) |
| 2,000 acres or more | | 691 | 492 | 401 | (NA) | (NA) | (NA) | (NA) | (NA) |
| Cropland used only for pasture or grazing | farms | 6 505 | 6 619 | 7 017 | 8 741 | 6 680 | 6 539 | 6 630 | 8 916 |
| | acres | 1 122 886 | 1 163 836 | 1 144 873 | 1 441 261 | 1 030 734 | 944 930 | 737 975 | 1 271 471 |
| Other cropland | farms | 9 928 | 11 578 | 11 180 | 13 676 | 16 450 | 17 547 | 19 121 | 20 656 |
| | acres | 5 963 670 | 6 327 727 | 5 873 966 | 6 730 111 | 6 545 085 | 5 973 936 | 5 356 356 | 5 080 884 |
| Cropland in cover crops, legumes, and soil-improvement grasses, not harvested and not pastured | farms | 869 | 1 418 | (NA) | (NA) | 3 318 | 1 686 | (NA) | (NA) |
| | acres | 143 955 | 186 876 | (NA) | (NA) | 444 787 | 338 486 | (NA) | (NA) |
| Cropland on which all crops failed | farms | 596 | 1 066 | (NA) | (NA) | 1 519 | (NA) | (NA) | (NA) |
| | acres | 115 277 | 200 318 | (NA) | (NA) | 145 069 | (NA) | (NA) | (NA) |
| Cropland in cultivated summer fallow | farms | 8 656 | 10 090 | (NA) | (NA) | 14 840 | 16 067 | 17 803 | 17 860 |
| | acres | 5 391 461 | 5 554 694 | (NA) | (NA) | 5 695 266 | 5 374 966 | 4 966 526 | 4 224 669 |
| Cropland idle | farms | 1 677 | 2 411 | (NA) | (NA) | 2 551 | (NA) | (NA) | (NA) |
| | acres | 312 977 | 383 839 | (NA) | (NA) | 259 943 | (NA) | (NA) | (NA) |
| Total woodland | farms | 3 469 | 3 034 | 2 933 | 3 285 | 4 081 | 4 772 | 5 340 | 7 098 |
| | acres | 2 032 152 | 1 921 154 | 2 049 728 | 1 752 055 | 2 125 306 | 2 437 862 | 2 163 660 | 3 159 878 |
| Woodland pastured | farms | 2 711 | 2 322 | (NA) | (NA) | 3 406 | 3 934 | 4 586 | 6 021 |
| | acres | 1 655 739 | 1 565 434 | (NA) | (NA) | 1 869 971 | 2 178 339 | 1 971 937 | 2 754 944 |
| Woodland not pastured | farms | 1 185 | 1 062 | (NA) | (NA) | 1 068 | 1 291 | 1 190 | 1 737 |
| | acres | 376 413 | 355 720 | (NA) | (NA) | 255 335 | 259 523 | 191 723 | 404 934 |
| Other land | farms | 19 684 | 19 718 | 19 806 | 21 294 | (NA) | (NA) | (NA) | (NA) |
| | acres | 42 054 726 | 43 537 157 | 44 662 903 | 45 057 617 | 48 320 023 | 46 585 762 | 44 796 854 | 42 159 028 |
| Pastureland and rangeland other than cropland and woodland pastured | farms | 13 237 | 13 642 | (NA) | (NA) | 20 414 | 22 245 | 25 362 | 25 604 |
| | acres | 40 811 816 | 42 357 296 | (NA) | (NA) | 47 376 901 | 45 471 269 | 43 922 843 | 41 226 673 |
| Land in house lots, ponds, roads, wasteland, etc. | farms | 14 777 | 14 011 | (NA) | (NA) | 24 502 | (NA) | 30 625 | 32 222 |
| | acres | 1 242 910 | 1 179 861 | (NA) | (NA) | 943 122 | 1 094 493 | 874 011 | 932 355 |
| Irrigated land | farms | 9 226 | 9 384 | 8 714 | 9 197 | 10 843 | 11 935 | 13 114 | 13 457 |
| | acres | 2 023 003 | 2 069 531 | 1 759 040 | 1 641 421 | 1 693 360 | 1 674 520 | 1 690 671 | 1 716 762 |

[1] Data for 1982, 1978, and 1950 through 1964 are based on a sample of farms.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Montana, p. 1.

## TABLE XXII - 7

## AVERAGE VALUE OF LAND & BUILDINGS PER AGRICULTURAL UNIT
1970 - 1982
(in thousands of dollars)

| Area | 1970 | 1975 | 1980 | 1981 | 1982 |
|---|---|---|---|---|---|
| United States | $ 73 | $ 142 | $ 311 | $ 342 | $ 348 |
| Montana | 146 | 298 | 598 | 621 | 678 |
| Idaho | 96 | 217 | 427 | 457 | 460 |
| Wyoming | 167 | 347 | 589 | 623 | 733 |

SOURCE: U.S. Bureau of the Census, 1982 Censuses of Agriculture, U.S., Montana, Idaho, and Wyoming, and U.S. Bureau of the Census, State and Metropolitan Area Data Book, 1982, p. 522.

## Table XXII-8

# Farms, Land in Farms, and Land Use, by Size of Farm: 1982 and 1978

[For meaning of abbreviations and symbols, see introductory text]

| All farms | Farms | | Land in farms (acres) | | Harvested cropland (acres) | | Irrigated land (acres) | |
|---|---|---|---|---|---|---|---|---|
| | 1982 | 1978 | 1982 | 1978 | 1982 | 1978 | 1982 | 1978 |
| Farms ... number | 23 570 | 23 565 | 60 539 209 | 61 690 919 | 9 365 775 | 8 741 043 | 2 023 003 | 2 069 531 |
| with harvested cropland | 19 279 | 20 313 | 53 462 495 | 53 803 323 | 9 365 775 | 8 741 043 | 1 968 562 | 2 011 447 |
| with irrigated land | 9 226 | 9 384 | 24 171 032 | 23 814 711 | 2 927 733 | 2 623 200 | 2 023 003 | 2 069 531 |
| Farms by size: | | | | | | | | |
| 1 to 9 acres ... number | 1 551 | 1 255 | 4 270 | 2 826 | 1 010 | 617 | 1 036 | 724 |
| with harvested cropland | 300 | 207 | 1 532 | 930 | 1 010 | 617 | 704 | 497 |
| with irrigated land | 261 | 191 | 1 529 | 962 | 669 | 453 | 1 036 | 724 |
| 10 to 49 acres ... number | 2 673 | 1 889 | 66 318 | 50 626 | 24 395 | 21 292 | 23 429 | 21 704 |
| with harvested cropland | 1 663 | 1 293 | 43 913 | 36 346 | 24 395 | 21 292 | 18 572 | 17 772 |
| with irrigated land | 1 419 | 1 149 | 36 060 | 31 067 | 15 643 | 15 028 | 23 429 | 21 704 |
| 50 to 69 acres ... number | 563 | 461 | 32 566 | 26 647 | 11 795 | 10 787 | 10 022 | 10 306 |
| with harvested cropland | 399 | 361 | 23 145 | 20 891 | 11 795 | 10 787 | 8 711 | 9 330 |
| with irrigated land | 299 | 270 | 17 339 | 15 717 | 7 526 | 7 190 | 10 022 | 10 306 |
| 70 to 99 acres ... number | 806 | 841 | 66 076 | 68 274 | 24 596 | 28 265 | 22 093 | 25 210 |
| with harvested cropland | 615 | 669 | 50 574 | 58 143 | 24 596 | 28 265 | 19 527 | 22 754 |
| with irrigated land | 456 | 494 | 37 325 | 40 070 | 15 975 | 19 179 | 22 093 | 25 210 |
| 100 to 139 acres ... number | 724 | 689 | 83 166 | 80 206 | 31 403 | 32 307 | 25 567 | 28 749 |
| with harvested cropland | 554 | 552 | 63 962 | 64 522 | 31 403 | 32 307 | 23 699 | 26 148 |
| with irrigated land | 370 | 386 | 42 639 | 45 374 | 19 954 | 21 357 | 25 567 | 28 749 |
| 140 to 179 acres ... number | 967 | 906 | 156 622 | 157 128 | 59 284 | 59 818 | 46 023 | 48 276 |
| with harvested cropland | 798 | 857 | 125 696 | 135 223 | 59 284 | 59 818 | 43 331 | 46 105 |
| with irrigated land | 512 | 519 | 80 507 | 81 843 | 37 780 | 37 365 | 46 023 | 48 276 |
| 180 to 219 acres ... number | 504 | 497 | 99 306 | 98 451 | 39 185 | 40 392 | 35 286 | 36 633 |
| with harvested cropland | 425 | 438 | 83 681 | 86 909 | 39 185 | 40 392 | 33 662 | 35 517 |
| with irrigated land | 311 | 316 | 61 167 | 62 629 | 29 725 | 30 066 | 35 286 | 36 633 |
| 220 to 259 acres ... number | 452 | 486 | 107 452 | 115 616 | 40 386 | 43 839 | 32 549 | 37 580 |
| with harvested cropland | 381 | 429 | 90 697 | 102 058 | 40 386 | 43 839 | 31 314 | 36 490 |
| with irrigated land | 256 | 289 | 60 865 | 68 548 | 27 233 | 31 492 | 32 549 | 37 580 |
| 260 to 499 acres ... number | 2 141 | 2 437 | 779 413 | 892 504 | 287 501 | 325 927 | 188 446 | 208 214 |
| with harvested cropland | 1 857 | 2 201 | 677 681 | 805 501 | 287 501 | 325 927 | 184 509 | 203 707 |
| with irrigated land | 1 048 | 1 203 | 379 211 | 435 243 | 174 502 | 186 059 | 188 446 | 208 214 |
| 500 to 999 acres ... number | 2 640 | 2 928 | 1 933 178 | 2 142 576 | 645 464 | 658 480 | 264 745 | 287 643 |
| with harvested cropland | 2 360 | 2 703 | 1 738 734 | 1 984 069 | 645 464 | 658 480 | 258 522 | 282 047 |
| with irrigated land | 1 035 | 1 122 | 744 108 | 799 480 | 273 268 | 261 466 | 264 745 | 287 643 |
| 1,000 to 1,999 acres ... number | 3 345 | 4 011 | 4 831 618 | 5 801 813 | 1 458 857 | 1 653 490 | 261 668 | 293 766 |
| with harvested cropland | 3 116 | 3 847 | 4 512 669 | 5 580 246 | 1 458 857 | 1 653 490 | 253 718 | 288 604 |
| with irrigated land | 916 | 1 109 | 1 280 642 | 1 545 167 | 321 049 | 368 912 | 261 668 | 293 766 |
| 2,000 acres or more ... number | 7 184 | 7 075 | 52 378 220 | 52 254 048 | 6 741 899 | 5 865 829 | 1 112 139 | 1 090 724 |
| with harvested cropland | 6 811 | 6 736 | 46 052 211 | 44 930 485 | 6 741 899 | 5 865 829 | 1 092 093 | 1 062 476 |
| with irrigated land | 2 325 | 2 334 | 21 429 620 | 20 688 611 | 2 004 407 | 1 642 613 | 1 112 139 | 1 090 724 |
| 5,000 acres or more ... number | 2 802 | 2 820 | 38 681 763 | 38 967 825 | 3 368 216 | 2 886 067 | 729 117 | 706 848 |
| with harvested cropland | 2 600 | 2 620 | 32 867 602 | 32 074 321 | 3 368 216 | 2 886 067 | 717 879 | 693 420 |
| with irrigated land | 1 137 | 1 143 | 17 621 202 | 16 826 008 | 1 340 554 | 1 060 537 | 729 117 | 706 848 |

*Source:* *U.S. Bureau of the Census, 1982 Census of Agriculture, Montana, p.3.*

## Table XXII-9

# Tenure and Characteristics of Operator and Type of Organization: 1982, 1978, and 1974

[For meaning of abbreviations and symbols, see introductory text]

| Characteristics | All farms | | | Farms operated by Black and other races[1] | | |
|---|---|---|---|---|---|---|
| | 1982 | 1978 | 1974 | 1982 | 1978 | 1974 |
| Tenure of operator: | | | | | | |
| All operators ... farms | 23 570 | 23 565 | 23 324 | 433 | 426 | 261 |
| acres | 60 539 209 | 61 690 919 | 62 158 351 | 3 230 488 | 3 105 606 | 549 455 |
| Harvested cropland ... farms | 19 279 | 20 313 | 20 376 | 337 | 339 | 222 |
| acres | 9 365 775 | 8 741 043 | 8 426 861 | 148 656 | 101 406 | 65 299 |
| Full owners ... farms | 11 662 | 10 692 | 10 677 | 205 | 167 | 73 |
| acres | 17 075 049 | 14 598 340 | 14 138 107 | 2 713 301 | 2 632 567 | 180 645 |
| Harvested cropland ... farms | 8 601 | 8 515 | 8 584 | 137 | 126 | 48 |
| acres | 2 540 246 | 2 019 063 | 2 035 023 | 68 034 | 16 363 | 9 862 |
| Part owners ... farms | 9 239 | 9 906 | 10 135 | 177 | 186 | 137 |
| acres | 38 772 900 | 42 652 335 | 43 760 196 | 481 926 | 420 280 | 302 301 |
| Harvested cropland ... farms | 8 590 | 9 466 | 9 685 | 157 | 169 | 129 |
| acres | 5 994 920 | 5 952 800 | 5 697 443 | 69 061 | 71 071 | 47 698 |
| Tenants ... farms | 2 669 | 2 765 | 2 512 | 51 | 53 | 51 |
| acres | 4 691 260 | 4 440 244 | 4 260 046 | 35 261 | 52 759 | 66 309 |
| Harvested cropland ... farms | 2 088 | 2 332 | 2 107 | 43 | 44 | 45 |
| acres | 830 609 | 769 160 | 694 415 | 11 561 | 13 972 | 7 539 |
| Percent of tenancy ... percent | 11.3 | 11.7 | 10.8 | 11.8 | 12.4 | 19.5 |
| Operator characteristics: | | | | | | |
| Operators by place of residence[2]: | | | | | | |
| On farm operated | 17 396 | 17 423 | 15 441 | 290 | 274 | 185 |
| Not on farm operated | 3 710 | 3 770 | 3 299 | 85 | 91 | 55 |
| Not reported | 2 464 | 2 372 | 4 584 | 58 | 61 | 21 |
| Operators by principal occupation[2]: | | | | | | |
| Farming | 16 898 | 16 855 | 16 967 | 277 | 235 | 168 |
| Other | 6 672 | 6 710 | 4 948 | 156 | 191 | 93 |
| Operators by days of work off farm[2]: | | | | | | |
| None | 10 964 | 12 114 | 9 952 | 160 | 145 | 87 |
| Any | 10 108 | 10 079 | 7 284 | 206 | 242 | 121 |
| 1 to 49 days | 2 135 | 2 483 | 1 632 | 23 | 32 | 15 |
| 50 to 99 days | 784 | 789 | 595 | 20 | 15 | 17 |
| 100 to 149 days | 818 | 780 | 587 | 22 | 42 | 5 |
| 150 to 199 days | 1 099 | 1 011 | 766 | 21 | 33 | 17 |
| 200 days or more | 5 272 | 5 016 | 3 704 | 120 | 120 | 67 |
| Not reported | 2 498 | 1 372 | 4 679 | 67 | 39 | 53 |

See footnotes at end of table.

## Table XXII-9 (continued)

# Tenure and Characteristics of Operator and Type of Organization: 1982, 1978, and 1974—Con.

[For meaning of abbreviations and symbols, see introductory text]

| Characteristics | All farms |  |  | Farms operated by Black and other races[1] |  |  |
|---|---|---|---|---|---|---|
|  | 1982 | 1978 | 1974 | 1982 | 1978 | 1974 |
| Operator characteristics—Con. |  |  |  |  |  |  |
| Operators by years on present farm: |  |  |  |  |  |  |
| 2 years or less | 1 268 | (NA) | (NA) | 27 | (NA) | (NA) |
| 3 or 4 years | 1 934 | (NA) | (NA) | 38 | (NA) | (NA) |
| 5 to 9 years | 3 686 | (NA) | (NA) | 65 | (NA) | (NA) |
| 10 years or more | 12 451 | (NA) | (NA) | 170 | (NA) | (NA) |
| Average years on present farm | 18.7 | (NA) | (NA) | 15.8 | (NA) | (NA) |
| Not reported | 4 231 | (NA) | (NA) | 133 | (NA) | (NA) |
| Operators by age group[2]: |  |  |  |  |  |  |
| Under 25 years | 515 | 571 | 474 | 13 | 14 | 1 |
| 25 to 34 years | 3 149 | 3 138 | 2 391 | 60 | 77 | 35 |
| 35 to 44 years | 4 688 | 4 400 | 3 912 | 106 | 80 | 54 |
| 45 to 54 years | 5 387 | 5 876 | 5 762 | 107 | 115 | 66 |
| 55 to 64 years | 5 877 | 6 233 | 6 069 | 85 | 98 | 67 |
| 65 years and over | 3 954 | 3 347 | 3 307 | 62 | 44 | 39 |
| Average age | 50.5 | 50.0 | 51.1 | 48.2 | 47.3 | 50.4 |
| Operators by sex: |  |  |  |  |  |  |
| Male farms | 22 287 | 22 404 | (NA) | 392 | 390 | (NA) |
| acres | 58 192 295 | 59 064 753 | (NA) | 3 197 630 | 3 068 653 | (NA) |
| Female farms | 1 283 | 1 161 | (NA) | 41 | 38 | (NA) |
| acres | 2 346 914 | 2 626 166 | (NA) | 32 858 | 36 953 | (NA) |
| Operators of Spanish origin farms | 46 | 71 | (NA) | 9 | 8 | (NA) |
| acres | 57 213 | 145 523 | (NA) | 4 445 | 2 547 | (NA) |
| Type of organization: |  |  |  |  |  |  |
| Individual or family farms | 18 842 | 19 042 | (NA) | 365 | 365 | (NA) |
| acres | 31 644 819 | 32 711 096 | (NA) | 605 659 | 498 544 | (NA) |
| Partnership farms | 2 099 | 2 305 | (NA) | 22 | 31 | (NA) |
| acres | 6 515 088 | 7 562 698 | (NA) | 23 769 | 48 617 | (NA) |
| Corporation farms | 2 336 | 2 012 | (NA) | 6 | 9 | (NA) |
| acres | 16 882 145 | 16 163 718 | (NA) | 6 245 | 18 512 | (NA) |
| Family held: |  |  |  |  |  |  |
| More than 10 stockholders farms | 76 | 36 | (NA) | - | - | (NA) |
| acres | 1 239 867 | 462 217 | (NA) | - | - | (NA) |
| 10 or less stockholders farms | 2 164 | 1 883 | (NA) | 6 | 9 | (NA) |
| acres | 14 771 669 | 14 814 191 | (NA) | 6 245 | 18 512 | (NA) |
| Other than family held: |  |  |  |  |  |  |
| More than 10 stockholders farms | 24 | 18 | (NA) | - | - | (NA) |
| acres | 477 929 | 276 673 | (NA) | - | - | (NA) |
| 10 or less stockholders farms | 72 | 75 | (NA) | - | - | (NA) |
| acres | 392 680 | 610 637 | (NA) | - | - | (NA) |
| Other—cooperative, estate or trust, institutional, etc. farms | 293 | 206 | (NA) | 40 | 21 | (NA) |
| acres | 5 497 157 | 5 253 407 | (NA) | 2 592 815 | 2 539 933 | (NA) |

[1] For classification of social and ethnic groups, see text.
[2] 1974 data apply only to individual or family operations (sole proprietorship) and partnerships; see text.

*Source:* *U.S. Bureau of the Census,* *1982 Census of Agriculture, Montana, pp. 3-4.*

## Table XXII-10

# Selected Characteristics of Farms Operated by Females, Persons of Spanish Origin, and Specified Racial Groups: 1982 and 1978

[For meaning of abbreviations and symbols, see introductory text]

| Characteristics |  | Female | Spanish origin | Black and other races |  |  |  |  |
|---|---|---|---|---|---|---|---|---|
|  |  |  |  | Total | Black | American Indian | Asian | Other (see text) |
| **FARMS AND LAND IN FARMS** |  |  |  |  |  |  |  |  |
| Farms | number, 1982 | 1 283 | 46 | 433 | 7 | 404 | 14 | 8 |
|  | 1978 | 1 161 | 71 | 428 | 8 | 387 | 16 | 15 |
| Land in farms | acres, 1982 | 2 346 914 | 57 213 | 3 230 488 | 6 315 | 3 202 146 | 19 655 | 2 372 |
|  | 1978 | 2 626 166 | 145 523 | 3 105 606 | 7 661 | 3 081 263 | 7 081 | 9 601 |
| Harvested cropland | farms, 1982 | 869 | 37 | 337 | 7 | 311 | 12 | 7 |
|  | 1978 | 859 | 62 | 339 | 6 | 304 | 15 | 14 |
|  | acres, 1982 | 228 523 | 10 017 | 148 656 | 1 383 | 140 780 | 5 474 | 1 019 |
|  | 1978 | 221 132 | 21 870 | 101 406 | 2 344 | 92 669 | 3 167 | 3 226 |
| **1982 FARMS BY SIZE** |  |  |  |  |  |  |  |  |
| 1 to 9 acres |  | 127 | 3 | 24 | - | 22 | 2 | - |
| 10 to 49 acres |  | 229 | 12 | 31 | 1 | 27 | 1 | 2 |
| 50 to 139 acres |  | 149 | 5 | 36 | - | 33 | - | 3 |
| 140 to 219 acres |  | 101 | 4 | 43 | - | 43 | - | - |
| 220 to 499 acres |  | 156 | 8 | 64 | - | 61 | 2 | 1 |
| 500 acres or more |  | 521 | 14 | 235 | 6 | 218 | 9 | 2 |
| **TENURE OF OPERATOR** |  |  |  |  |  |  |  |  |
| Full owners | farms, 1982 | 831 | 19 | 206 | 7 | 186 | 7 | 5 |
|  | 1978 | (NA) | 33 | 187 | 4 | 165 | 10 | 8 |
|  | acres, 1982 | 623 471 | 8 810 | 2 713 301 | 6 315 | 2 698 535 | 7 151 | 1 300 |
|  | 1978 | (NA) | 22 157 | 2 632 567 | (D) | 2 624 238 | (D) | (D) |
| Part owners | farms, 1982 | 351 | 18 | 177 | - | 170 | 6 | 1 |
|  | 1978 | (NA) | 32 | 186 | 3 | 173 | 5 | 5 |
|  | acres, 1982 | 1 600 994 | 43 927 | 481 928 | - | 472 482 | (D) | (D) |
|  | 1978 | (NA) | 118 338 | 420 290 | 6 367 | 405 233 | 3 412 | 5 278 |
| Tenants | farms, 1982 | 101 | 9 | 51 | - | 48 | 1 | 2 |
|  | 1978 | (NA) | 6 | 53 | 1 | 49 | 1 | 2 |
|  | acres, 1982 | 122 449 | 4 476 | 35 261 | - | 31 129 | (D) | (D) |
|  | 1978 | (NA) | 5 028 | 52 759 | (D) | 51 791 | (D) | (D) |

## Table XXII-10 (continued)

# Selected Characteristics of Farms Operated by Females, Persons of Spanish Origin, and Specified Racial Groups: 1982 and 1978—Con.

[For meaning of abbreviations and symbols, see introductory text]

| Characteristics | Female | Spanish origin | Black and other races: Total | Black | American Indian | Asian | Other (see text) |
|---|---|---|---|---|---|---|---|
| **1982 FARMS BY TYPE OF ORGANIZATION** | | | | | | | |
| Individual or family | 1 048 | 40 | 365 | 6 | 340 | 11 | 8 |
| Partnership | 130 | 4 | 22 | - | 21 | 1 | - |
| Family held corporation | 84 | 1 | 6 | 1 | 3 | 2 | - |
| Other than family held corporation | 2 | 1 | - | - | - | - | - |
| Other—cooperative, estate or trust, institutional, etc. | 19 | - | 40 | - | 40 | - | - |
| **1982 MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD** | | | | | | | |
| Total sales (see text) ... farms | 1 283 | 46 | 433 | 7 | 404 | 14 | 8 |
| $1,000 | 35 315 | 1 786 | 25 068 | 141 | 23 930 | 871 | 126 |
| Crops, including nursery and greenhouse products ... farms | 538 | 25 | 217 | 4 | 195 | 12 | 6 |
| $1,000 | 13 300 | 696 | 10 805 | 28 | 10 202 | 509 | 66 |
| Livestock, poultry, and their products ... farms | 955 | 34 | 319 | 7 | 298 | 8 | 6 |
| $1,000 | 22 016 | 1 089 | 14 262 | 113 | 13 728 | 362 | 60 |
| Farms by value of sales: | | | | | | | |
| Less than $2,500 | 381 | 14 | 79 | - | 76 | 1 | 2 |
| $2,500 to $9,999 | 336 | 8 | 116 | 2 | 108 | 3 | 3 |
| $10,000 to $19,999 | 174 | 5 | 60 | 1 | 54 | 3 | 2 |
| $20,000 or more | 389 | 19 | 160 | 4 | 148 | 7 | 1 |
| Abnormal farms | 3 | - | 18 | - | 18 | - | - |
| **1982 FARMS BY STANDARD INDUSTRIAL CLASSIFICATION** | | | | | | | |
| Cash grains (011) | 253 | 7 | 117 | 2 | 105 | 8 | 2 |
| Field crops, except cash grains (013) | 99 | 9 | 29 | - | 26 | 1 | 2 |
| Cotton (0131) | - | - | - | - | - | - | - |
| Tobacco (0132) | - | - | - | - | - | - | - |
| Sugar crops, Irish potatoes, hay, peanuts, and other field crops (0133, 0134, 0139) | 99 | 9 | 29 | - | 26 | 1 | 2 |
| Vegetables and melons (016) | 3 | - | - | - | - | - | - |
| Fruits and tree nuts (017) | 21 | - | 3 | - | 3 | - | - |
| Horticultural specialties (018) | 5 | - | 1 | - | 1 | - | - |
| General farms, primarily crop (019) | 38 | - | 10 | - | 10 | - | - |
| Livestock, except dairy, poultry, and animal specialties (021) | 702 | 22 | 237 | 5 | 224 | 5 | 3 |
| Beef cattle, except feedlots (0212) | 563 | 17 | 221 | 5 | 209 | 4 | 3 |
| Dairy farms (024) | 19 | 3 | 2 | - | 2 | - | - |
| Poultry and eggs (025) | 11 | - | - | - | - | - | - |
| Animal specialties (027) | 109 | 3 | 19 | - | 19 | - | - |
| General farms, primarily livestock (029) | 23 | 2 | 15 | - | 14 | - | 1 |
| **1982 OPERATOR CHARACTERISTICS** | | | | | | | |
| Operators by place of residence: | | | | | | | |
| On farm operated | 923 | 34 | 290 | 6 | 267 | 11 | 6 |
| Not on farm operated | 234 | 6 | 85 | 1 | 80 | 2 | 2 |
| Not reported | 126 | 6 | 58 | - | 57 | 1 | - |
| Operators by principal occupation: | | | | | | | |
| Farming | 841 | 19 | 277 | 5 | 260 | 11 | 1 |
| Other | 442 | 27 | 156 | 2 | 144 | 3 | 7 |
| Operators by days of work off farm: | | | | | | | |
| None | 620 | 21 | 160 | 3 | 146 | 9 | 2 |
| Any | 515 | 25 | 206 | 2 | 194 | 4 | 6 |
| 1 to 99 days | 132 | 3 | 43 | - | 43 | - | - |
| 100 to 199 days | 114 | 4 | 43 | 1 | 41 | - | 1 |
| 200 days or more | 269 | 18 | 120 | 1 | 110 | 4 | 5 |
| Not reported | 148 | - | 67 | 2 | 64 | 1 | - |
| Operators by years on present farm: | | | | | | | |
| 2 years or less | 81 | 1 | 27 | - | 26 | 1 | - |
| 3 or 4 years | 126 | 4 | 38 | - | 36 | 2 | - |
| 5 to 9 years | 209 | 9 | 65 | 1 | 61 | - | 3 |
| 10 years or more | 614 | 21 | 170 | 5 | 155 | 7 | 3 |
| Average years on present farm | 18.3 | 16.2 | 15.8 | 24.7 | 15.5 | 21.4 | 11.3 |
| Not reported | 253 | 11 | 133 | 1 | 126 | 4 | 2 |
| Operators by age group: | | | | | | | |
| Under 25 years | 25 | 1 | 13 | - | 13 | - | - |
| 25 to 34 years | 132 | 4 | 60 | - | 55 | 3 | 2 |
| 35 to 44 years | 184 | 13 | 105 | - | 99 | 4 | 2 |
| 45 to 54 years | 259 | 11 | 107 | 3 | 102 | 1 | 1 |
| 55 to 64 years | 318 | 11 | 86 | 3 | 75 | 5 | 3 |
| 65 years and over | 365 | 6 | 62 | 1 | 60 | 1 | - |
| Average age | 54.8 | 50.1 | 48.2 | 58.6 | 48.1 | 46.7 | 46.4 |
| Operators by sex: | | | | | | | |
| Male | (X) | 43 | 392 | 7 | 363 | 14 | 8 |
| Female | 1 283 | 3 | 41 | - | 41 | - | - |
| Operators of Spanish origin | 3 | 46 | 9 | - | 4 | - | 5 |
| **1982 COMMODITY CREDIT CORPORATION LOANS AND DIRECT SALES** | | | | | | | |
| Amount received from Commodity Credit Corporation loans ... farms | 67 | 3 | 37 | - | 31 | 5 | 1 |
| $1,000 | 1 956 | 49 | 886 | - | 789 | (D) | (D) |
| Value of agricultural products sold directly to individuals for human consumption (see text) ... farms | 91 | 3 | 18 | - | 17 | - | 1 |
| $1,000 | 108 | 1 | 9 | - | (D) | - | (D) |

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Montana, pp. 4-5.

## Table XXII-11

### CASH RECEIPTS -- 1972 - 1983

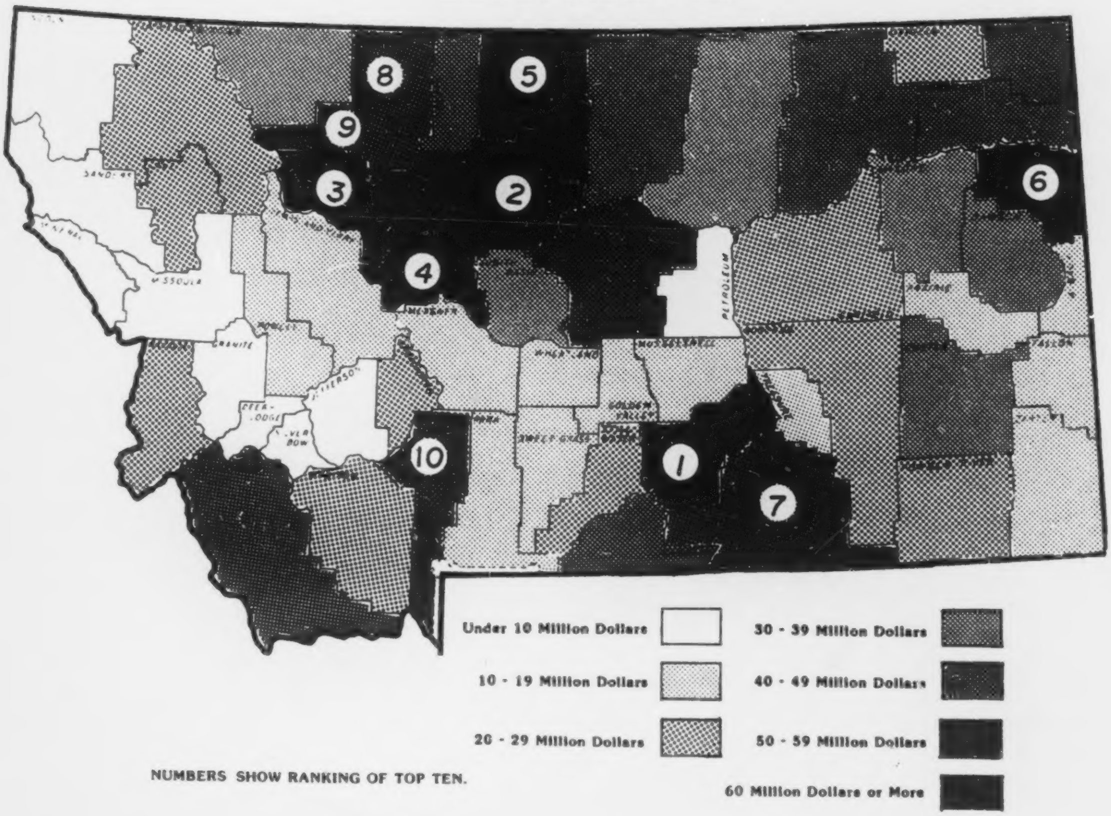
CASH RECEIPTS FROM THE SALE OF PRINCIPAL FARM PRODUCTS and GOVERNMENT PAYMENTS

| Year | Livestock and Livestock Products | Crops | Total Receipts from Marketings | Government Payments | Total All Cash Receipts |
|---|---|---|---|---|---|
| | | | --Thousand Dollars-- | | |
| 1972................ | 495,281 | 328,465 | 823,746 | 103,169 | 926,915 |
| 1973................ | 572,107 | 554,964 | 1,127,071 | 64,990 | 1,192,061 |
| 1974................ | 433,124 | 720,745 | 1,153,869 | 14,998 | 1,168,867 |
| 1975................ | 420,949 | 587,992 | 1,008,941 | 9,350 | 1,018,291 |
| 1976................ | 456,119 | 582,365 | 1,038,484 | 10,497 | 1,048,981 |
| 1977................ | 496,201 | 475,120 | 971,321 | 61,443 | 1,032,764 |
| 1978................ | 681,013 | 533,056 | 1,214,069 | 137,237 | 1,351,306 |
| 1979................ | 806,038 | 585,278 | 1,391,316 | 33,997 | 1,425,313 |
| 1980................ | 747,447 | 657,547 | 1,404,994 | 58,484 | 1,463,478 |
| 1981................ | 629,224 | 782,773 | 1,411,997 | 85,131 | 1,497,128 |
| 1982................ | 655,054 | 907,103 | 1,562,157 | 116,916 | 1,679,073 |
| 1983................ | 656,364 | 846,939 | 1,503,303 | 239,410 | 1,742,713 |

## FIGURE XXII-2

### CASH RECEIPTS FROM FARM MARKETINGS - 1982

EXCLUDING GOVERNMENT PAYMENTS


8
5
9
3
2
6
4
1
7
10
MISSOULA
GRANITE
PETROLEUM
GOLDEN VALLEY
SWEET GRASS
MUSSELSHELL
JEFFERSON
DEER LODGE
SILVER BOW
FALLON
Under 10 Million Dollars
10 - 19 Million Dollars
20 - 29 Million Dollars
30 - 39 Million Dollars
40 - 49 Million Dollars
50 - 59 Million Dollars
60 Million Dollars or More

NUMBERS SHOW RANKING OF TOP TEN.

*Source: Pratt and Lies, Montana Agricultural Statistics, 1984, p. 10.*

## TABLE XXII - 12

## MONTANA CASH RECEIPTS FROM MARKETINGS BY COMMODITIES
## 1978 - 1983*
(thousands of dollars)

| Item | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Livestock & Products: | | | | | | |
| Cattle & Calves | 582,260 | 700,097 | 640,507 | 506,118 | 540,617 | 543,673 |
| Dairy Products | 29,775 | 33,515 | 38,416 | 42,372 | 42,833 | 44,881 |
| Sheep & Lambs | 16,925 | 13,243 | 12,307 | 13,469 | 18,847 | 16,703 |
| Wool | 3,547 | 4,672 | 5,304 | 5,783 | 4,298 | 3,731 |
| Hogs | 34,291 | 28,490 | 26,433 | 35,090 | 32,614 | 22,909 |
| Eggs | 8,462 | 9,012 | 7,906 | 8,835 | 8,479 | 8,695 |
| Chickens | 154 | 85 | 117 | 174 | 180 | 188 |
| Other** | 5,599 | 16,924 | 16,457 | 17,383 | 7,186 | 15,584 |
| Total | 681,013 | 806,038 | 747,447 | 629,224 | 655,054 | 656,364 |
| Crops: | | | | | | |
| Field Crops | | | | | | |
| Wheat | 372,197 | 422,258 | 463,051 | 590,907 | 688,738 | 588,594 |
| Barley | 72,819 | 73,221 | 77,876 | 88,643 | 110,408 | 150,740 |
| Sugarbeets | 26,462 | 30,922 | 45,181 | 34,447 | 36,040 | 34,683 |
| Hay | 25,947 | 27,158 | 39,510 | 34,215 | 34,503 | 34,948 |
| Potatoes | 7,880 | 7,052 | 5,969 | 12,492 | 11,944 | 12,445 |
| Oats | 2,564 | 3,263 | 2,034 | 2,461 | 3,168 | 3,305 |
| Dry Edible Beans | 1,989 | 2,908 | 4,257 | 4,052 | 2,745 | 1,176 |
| Other*** | 15,882 | 9,549 | 12,100 | 9,435 | 12,078 | 14,377 |
| Fruit & Berries | | | | | | |
| Cherries | 1,276 | 2,006 | 428 | 875 | 1,928 | 620 |
| Other**** | 40 | 41 | 41 | 46 | 51 | 51 |
| Other Products | | | | | | |
| Forest | 4,200 | 4,700 | 4,700 | 3,000 | 3,500 | 4,000 |
| Greenhouse & Nursery | 1,800 | 2,200 | 2,400 | 2,200 | 2,000 | 2,000 |
| Total | 533,056 | 585,278 | 657,547 | 782,773 | 907,103 | 846,939 |
| All Commodities: | 1,214,069 | 1,391,316 | 1,404,994 | 1,411,997 | 1,562,157 | 1,503,303 |

* Revised

** Honey & beeswax, turkey & turkey eggs, ducks, geese, other fowl, game birds, rabbits, mink, bees, horses, & mules.

*** Dry field peas, cabbage, sweet corn, lettuce, onions, green peas, tomatoes, miscellaneous vegetables, rye, corn, sorghum grain, soybeans, alfalfa seed, alsike clover seed, red clover seed, mustard seed, timothy seed, Kentucky bluegrass seed, bromegrass seed, fescue seed, rapeseed, wheatgrass seed, white clover seed, flaxseed, and other seed.

**** Apples, plums, prunes, strawberries, raspberries, other berries.

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 11.

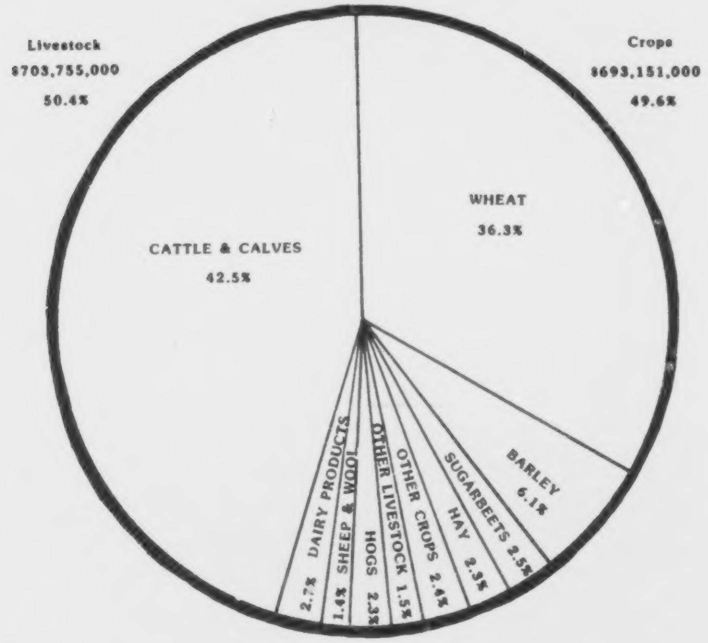
## FIGURE XXII-3

Montana

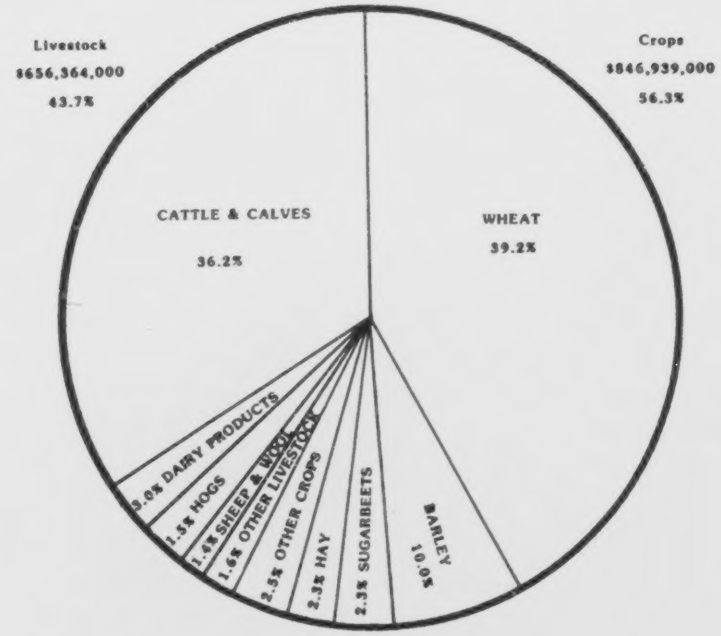
CASH RECEIPTS

FROM FARM MARKETINGS of COMMODITIES

1978-82 AVERAGE



1983



*Source: Montana Crop and Livestock Reporting Service.*

## TABLE XXII - 13

## MONTANA CASH RECEIPTS BY COMMODITIES AS A PERCENT OF TOTAL RECEIPTS FOR ALL COMMODITIES 1978 - 1983*

(percent)

| Item | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 |
|---|---|---|---|---|---|---|
| Livestock & Products: | | | | | | |
| Cattle & Calves | 48.0% | 50.3% | 45.6% | 35.9% | 34.6% | 36.2% |
| Dairy Products | 2.4% | 2.4% | 2.7% | 3.0% | 2.7 | 3.0% |
| Sheep & Lambs | 1.4% | 1.0% | 0.9% | 1.0% | 1.2 | 1.1% |
| Wool | 0.3% | 0.3% | 0.4% | 0.4% | 0.3 | 0.3% |
| Hogs | 2.8% | 2.0% | 1.9% | 2.5% | 2.1 | 1.5% |
| Chickens & Eggs | 0.7% | 0.7% | 0.6% | 0.6% | 0.5 | 0.6% |
| Other | 0.5% | 1.2% | 1.1% | 1.2% | 0.5 | 1.0% |
| Total | 56.1% | 57.9% | 53.2% | 44.6% | 41.9% | 43.7% |
| Crops: | | | | | | |
| Wheat | 30.7% | 30.3% | 33.0% | 41.9% | 44.1% | 39.2% |
| Barley | 6.0% | 5.3% | 5.5% | 6.3% | 7.1% | 10.0% |
| Sugarbeets | 2.2% | 2.2% | 3.2% | 2.4% | 2.3% | 2.3% |
| Hay | 2.1% | 2.0% | 2.8% | 2.4% | 2.2% | 2.3% |
| Potatoes | 0.6% | 0.5% | 0.4% | 0.9% | 0.8% | 0.8% |
| Other | 2.3% | 1.8% | 1.9% | 1.5% | 1.6% | 1.7% |
| Total | 43.9% | 42.1% | 46.8% | 55.4% | 58.1% | 56.3% |
| All Commodities | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

* Revised.

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 11.

## TABLE XXII - 14

## MONTANA AGRICULTURAL CASH RECEIPTS FROM SALE OF PRINCIPAL PRODUCTS & GOVERNMENT PAYMENTS*: 1982

(dollars)

| County & District | Livestock & Livestock Products | Crops | Total Receipts from Marketings | Government Payments | All Cash Receipts |
|---|---|---|---|---|---|
| Deer Lodge | $ 845,000 | $ 1,287,000 | $ 2,132,000 | $ 56,000 | $ 2,188,000 |
| Flathead | 7,739,000 | 12,656,000 | 20,395,000 | 616,000 | 21,011,000 |
| Granite | 7,792,000 | 2,092,000 | 9,884,000 | 39,000 | 9,923,000 |
| Lake | 14,127,000 | 14,884,000 | 29,011,000 | 498,000 | 29,509,000 |
| Lincoln | 1,438,000 | 1,147,000 | 2,585,000 | 16,000 | 2,601,000 |
| Mineral | 715,000 | 463,000 | 1,178,000 | 15,000 | 1,193,000 |
| Missoula | 4,536,000 | 3,781,000 | 8,317,000 | 111,000 | 8,428,000 |
| Powell | 10,713,000 | 4,355,000 | 15,068,000 | 124,000 | 15,192,000 |
| Ravalli | 15,968,000 | 4,834,000 | 20,802,000 | 163,000 | 20,965,000 |
| Sanders | 3,966,000 | 1,349,000 | 5,315,000 | 179,000 | 5,494,000 |
| N.West Total | 67,839,000 | 46,848,000 | 114,687,000 | 1,817,000 | 116,504,000 |
| Blaine | 13,169,000 | 26,780,000 | 39,949,000 | 3,764,000 | 43,713,000 |
| Chouteau | 12,193,000 | 72,287,000 | 84,480,000 | 10,423,000 | 94,903,000 |
| Glacier | 9,466,000 | 28,683,000 | 38,149,000 | 4,615,000 | 42,764,000 |
| Hill | 6,237,000 | 59,973,000 | 66,210,000 | 6,945,000 | 73,155,000 |
| Liberty | 3,526,000 | 41,072,000 | 44,598,000 | 4,075,000 | 48,673,000 |
| Phillips | 17,067,000 | 20,389,000 | 37,456,000 | 2,752,000 | 40,208,000 |
| Pondera | 8,337,000 | 43,917,000 | 52,254,000 | 5,601,000 | 57,855,000 |
| Teton | 23,819,000 | 43,254,000 | 67,073,000 | 4,576,000 | 71,649,000 |
| Toole | 4,913,000 | 48,309,000 | 53,222,000 | 5,365,000 | 58,587,000 |
| N.Central Total | 98,727,000 | 384,664,000 | 483,391,000 | 48,116,000 | 531,507,000 |
| Daniels | 5,361,000 | 23,828,000 | 29,189,000 | 4,207,000 | 33,396,000 |
| Dawson | 9,203,000 | 28,706,000 | 37,909,000 | 3,172,000 | 41,081,000 |
| Garfield | 12,451,000 | 7,997,000 | 20,448,000 | 2,065,000 | 22,513,000 |
| McCone | 8,877,000 | 22,133,000 | 31,010,000 | 3,933,000 | 34,943,000 |
| Richland | 27,520,000 | 38,117,000 | 65,637,000 | 3,809,000 | 69,446,000 |
| Roosevelt | 8,413,000 | 34,653,000 | 43,066,000 | 4,054,000 | 47,120,000 |
| Sheridan | 4,255,000 | 39,465,000 | 43,720,000 | 5,508,000 | 49,228,000 |
| Valley | 15,049,000 | 33,018,000 | 48,067,000 | 5,692,000 | 53,759,000 |
| N.East Total | 91,129,000 | 227,917,000 | 319,046,000 | 32,440,000 | 351,486,000 |
| Broadwater | 5,646,000 | 18,637,000 | 24,283,000 | 2,033,000 | 26,316,000 |
| Cascade | 36,338,000 | 30,026,000 | 66,364,000 | 4,225,000 | 70,589,000 |
| Fergus | 26,178,000 | 25,759,000 | 51,937,000 | 3,826,000 | 55,763,000 |
| Golden Valley | 9,768,000 | 2,905,000 | 12,673,000 | 672,000 | 13,345,000 |
| Judith Basin | 16,104,000 | 17,197,000 | 33,301,000 | 2,489,000 | 35,790,000 |
| Lewis & Clark | 12,430,000 | 3,853,000 | 16,283,000 | 569,000 | 16,852,000 |
| Meagher | 13,352,000 | 2,133,000 | 15,485,000 | 359,000 | 15,844,000 |
| Musselshell | 9,170,000 | 4,351,000 | 13,521,000 | 660,000 | 14,181,000 |
| Petroleum | 7,432,000 | 1,370,000 | 8,802,000 | 251,000 | 9,053,000 |
| Wheatland | 9,295,000 | 3,463,000 | 12,758,000 | 688,000 | 13,446,000 |
| Central Total | 145,713,000 | 109,694,000 | 255,407,000 | 15,772,000 | 271,179,000 |
| Beaverhead | 33,306,000 | 7,197,000 | 40,503,000 | 747,000 | 41,250,000 |
| Gallatin | 24,040,000 | 28,204,000 | 52,244,000 | 1,454,000 | 53,698,000 |
| Jefferson | 3,742,000 | 1,571,000 | 5,313,000 | 295,000 | 5,608,000 |
| Madison | 21,933,000 | 5,105,000 | 27,038,000 | 581,000 | 27,619,000 |
| Silver Bow | 4,378,000 | 582,000 | 4,960,000 | 19,000 | 4,979,000 |
| S.West Total | 87,399,000 | 42,659,000 | 130,058,000 | 3,096,000 | 133,154,000 |

TABLE XXII - 14
(cont.)

| County & District | Livestock & Livestock Products | Crops | Total Receipts from Marketings | Government Payments | All Cash Receipts |
|---|---|---|---|---|---|
| Big Horn | 32,412,000 | 25,641,000 | 58,053,000 | 2,027,000 | 60,080,000 |
| Carbon | 19,411,000 | 21,666,000 | 41,077,000 | 606,000 | 41,683,000 |
| Park | 10,603,000 | 4,076,000 | 14,679,000 | 449,000 | 15,128,000 |
| Stillwater | 18,758,000 | 8,365,000 | 27,123,000 | 1,419,000 | 28,542,000 |
| Sweet Grass | 9,530,000 | 1,441,000 | 10,971,000 | 291,000 | 11,262,000 |
| Treasure | 3,953,000 | 10,256,000 | 14,209,000 | 242,000 | 14,451,000 |
| Yellowstone | 55,936,000 | 37,488,000 | 93,424,000 | 2,145,000 | 95,569,000 |
| S.Central Total | 150,603,000 | 108,933,000 | 259,536,000 | 7,179,000 | 266,715,000 |
| Carter | 12,296,000 | 4,982,000 | 17,278,000 | 2,243,000 | 19,521,000 |
| Custer | 21,703,000 | 11,320,000 | 33,023,000 | 974,000 | 33,997,000 |
| Fallon | 6,828,000 | 9,071,000 | 15,899,000 | 1,199,000 | 17,098,000 |
| Powder River | 14,272,000 | 6,518,000 | 20,790,000 | 930,000 | 21,720,000 |
| Prairie | 8,148,000 | 9,409,000 | 17,557,000 | 804,000 | 18,361,000 |
| Rosebud | 15,868,000 | 12,257,000 | 28,125,000 | 1,274,000 | 29,399,000 |
| Wibaux | 4,280,000 | 6,056,000 | 10,336,000 | 1,072,000 | 11,408,000 |
| S.East Total | 83,395,000 | 59,613,000 | 143,008,000 | 8,496,000 | 151,504,000 |
| State Total | 724,805,000 | 980,328,000 | 1,705,133,000 | 116,916,000 | 1,822,049,000 |

* Includes estimates of inter-farm and intra-state sales resulting in larger total cash receipts than shown in USDA estimates.

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 13. Based on data from Bureau of Economic Analysis, U.S. Dept. of Commerce, Washington, DC.

## Table XXII-15

# Market Value of Montana Agricultural Products Sold: 1982, 1978, and 1974

| Item | | 1982 | 1978 | 1974 |
|---|---|---|---|---|
| Total sales[1] (see text) | farms | 23 570 | 23 565 | 23 324 |
| | $1,000 | 1 547 160 | 1 177 454 | 1 033 239 |
| Average per farm | dollars | 65 641 | 49 966 | 44 299 |
| Value of sales: | | | | |
| Less than $2,500 (see text) | farms | 3 914 | 2 842 | 3 340 |
| | $1,000 | 3 680 | 3 520 | 3 971 |
| $2,500 to $4,999 | farms | 1 795 | 1 991 | 1 665 |
| | $1,000 | 6 474 | 7 257 | 6 030 |
| $5,000 to $7,499 | farms | 1 334 | 1 399 | 1 405 |
| | $1,000 | 8 159 | 8 546 | 8 704 |
| $7,500 to $9,999 | farms | 961 | 1 139 | 1 115 |
| | $1,000 | 8 347 | 9 852 | 9 721 |
| $10,000 to $14,999 | farms | 1 498 | 1 823 | 1 969 |
| | $1,000 | 18 338 | 22 330 | 24 493 |
| $15,000 to $19,999 | farms | 1 186 | 1 462 | 1 647 |
| | $1,000 | 20 399 | 25 292 | 26 540 |
| $20,000 to $29,999 | farms | 1 897 | 2 432 | 2 603 |
| | $1,000 | 46 707 | 59 942 | 64 161 |
| $20,000 to $24,999 | farms | 1 019 | 1 288 | (NA) |
| | $1,000 | 22 662 | 28 727 | (NA) |
| $25,000 to $29,999 | farms | 878 | 1 144 | (NA) |
| | $1,000 | 24 045 | 31 215 | (NA) |
| $30,000 to $39,999 | farms | 1 487 | 1 961 | 1 968 |
| | $1,000 | 51 589 | 66 530 | 69 038 |
| $40,000 to $59,999 | farms | 2 280 | 2 863 | 2 766 |
| | $1,000 | 112 313 | 140 070 | 134 641 |
| $40,000 to $49,999 | farms | 1 227 | 1 632 | (NA) |
| | $1,000 | 54 882 | 72 923 | (NA) |
| $50,000 to $59,999 | farms | 1 053 | 1 231 | (NA) |
| | $1,000 | 57 431 | 67 147 | (NA) |
| $60,000 to $79,999 | farms | 1 638 | 1 684 | 1 625 |
| | $1,000 | 113 734 | 114 768 | 111 251 |
| $80,000 to $99,999 | farms | 1 237 | 1 129 | 967 |
| | $1,000 | 110 109 | 100 790 | 85 959 |
| $100,000 to $249,999 | farms | 3 266 | 2 192 | (NA) |
| | $1,000 | 489 191 | 319 997 | (NA) |
| $100,000 to $199,999 | farms | 2 799 | 1 941 | 1 540 |
| | $1,000 | 385 529 | 264 320 | 206 780 |
| $200,000 to $249,999 | farms | 467 | 251 | (NA) |
| | $1,000 | 103 662 | 55 677 | (NA) |
| $250,000 to $499,999[2] | farms | 715 | 375 | 496 |
| | $1,000 | 238 844 | 124 327 | 141 832 |
| $500,000 or more | farms | 263 | 160 | 106 |
| | 1,000 | 308 819 | 166 536 | 135 616 |
| Abnormal farms | farms | 99 | 113 | 102 |
| | $1,000 | 10 658 | 3 698 | 2 502 |

| Item | | 1982 | 1978 | 1974 |
|---|---|---|---|---|
| Total sales[1] (see text)—Con. | | | | |
| Sales by commodity or commodity group: | | | | |
| Crops, including nursery and greenhouse products | farms | 14 227 | 15 191 | 15 972 |
| | $1,000 | 759 171 | 488 486 | 549 876 |
| Grains | farms | 11 586 | 12 548 | (NA) |
| | $1,000 | 665 688 | 410 869 | (NA) |
| Corn for grain | farms | 151 | (NA) | (NA) |
| | $1,000 | 3 336 | (NA) | (NA) |
| Wheat | farms | 9 952 | (NA) | (NA) |
| | $1,000 | 530 021 | (NA) | (NA) |
| Soybeans | farms | 4 | (NA) | (NA) |
| | $1,000 | 72 | (NA) | (NA) |
| Sorghum for grain | farms | - | (NA) | (NA) |
| | $1,000 | - | (NA) | (NA) |
| Oats | farms | 1 082 | (NA) | (NA) |
| | $1,000 | 4 828 | (NA) | (NA) |
| Other grains | farms | 6 578 | (NA) | (NA) |
| | $1,000 | 127 435 | (NA) | (NA) |
| Cotton and cottonseed | farms | - | - | (NA) |
| | $1,000 | - | - | (NA) |
| Tobacco | farms | - | - | (NA) |
| | $1,000 | - | - | (NA) |
| Hay, silage, and field seeds | farms | 4 741 | 5 061 | (NA) |
| | $1,000 | 44 019 | 42 317 | (NA) |
| Vegetables, sweet corn, and melons | farms | 105 | 96 | (NA) |
| | $1,000 | 407 | 201 | (NA) |
| Fruits, nuts, and berries | farms | 252 | 207 | (NA) |
| | $1,000 | 2 489 | 1 334 | (NA) |
| Nursery and greenhouse products | farms | 134 | 113 | 84 |
| | $1,000 | 5 850 | 3 277 | 1 464 |
| Other crops | farms | 605 | 748 | (NA) |
| | $1,000 | 40 718 | 30 488 | (NA) |
| Livestock, poultry, and their products | farms | 17 175 | 17 448 | 18 140 |
| | $1,000 | 787 969 | 688 968 | 480 277 |
| Poultry and poultry products | farms | 959 | 891 | 1 290 |
| | $1,000 | 9 232 | 8 306 | 8 800 |
| Dairy products | farms | 604 | 751 | (NA) |
| | $1,000 | 35 785 | 27 268 | (NA) |
| Cattle and calves | farms | 15 325 | 15 853 | (NA) |
| | $1,000 | 676 086 | 593 554 | (NA) |
| Sheep, lambs, and wool | farms | 2 484 | 2 131 | (NA) |
| | $1,000 | 21 065 | 22 425 | (NA) |
| Hogs and pigs | farms | 1 562 | 2 318 | (NA) |
| | $1,000 | 32 350 | 27 774 | (NA) |
| Other livestock and livestock products (see text) | farms | 2 116 | 1 936 | (NA) |
| | $1,000 | 13 451 | 9 641 | (NA) |

[1] Data for 1974 include sales of forest products.
[2] Data for 1974 are $200,000 to $499,999.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Montana, p. 8.

## TABLE XXII - 16

## NUMERICAL RANKING OF MONTANA COUNTIES
(1983 crop production)

| | All Wheat | Winter Wheat | Spring Wheat Excl. Durum | Durum Wheat | Barley | Oats | All Hay |
|---|---|---|---|---|---|---|---|
| Beaverhead | 37 | 42 | 24 | 0 | 23 | 43 | 1 |
| Big Horn | 19 | 11 | 25 | 21 | 18 | 27 | 8 |
| Blaine | 8 | 9 | 7 | 11 | 12 | 6 | 13 |
| Broadwater | 27 | 24 | 22 | 0 | 14 | 26 | 33 |
| Carbon | 34 | 33 | 27 | 0 | 25 | 25 | 9 |
| Carter | 28 | 21 | 35 | 18 | 42 | 18 | 16 |
| Cascade | 10 | 8 | 16 | 9 | 5 | 33 | 7 |
| Chouteau | 2 | 1 | 3 | 5 | 1 | 7 | 32 |
| Custer | 30 | 23 | 33 | 22 | 46 | 9 | 20 |
| Daniels | 17 | 50 | 5 | 7 | 34 | 42 | 53 |
| Dawson | 14 | 13 | 11 | 15 | 21 | 11 | 39 |
| Deer Lodge | 53 | 0 | 51 | 0 | 51 | 56 | 49 |
| Fallon | 25 | 25 | 28 | 19 | 37 | 15 | 31 |
| Fergus | 12 | 7 | 23 | 0 | 4 | 3 | 3 |
| Flathead | 40 | 35 | 36 | 0 | 13 | 45 | 22 |
| Gallatin | 24 | 20 | 21 | 0 | 8 | 16 | 4 |
| Garfield | 21 | 19 | 20 | 0 | 29 | 14 | 42 |
| Glacier | 18 | 32 | 10 | 14 | 6 | 32 | 37 |
| Golden Valley | 33 | 26 | 48 | 0 | 38 | 35 | 48 |
| Granite | 52 | 0 | 50 | 0 | 54 | 52 | 25 |
| Hill | 1 | 2 | 1 | 12 | 7 | 4 | 45 |
| Jefferson | 44 | 40 | 42 | 0 | 47 | 41 | 30 |
| Judith Basin | 22 | 14 | 30 | 0 | 9 | 10 | 26 |
| Lake | 38 | 36 | 31 | 0 | 35 | 21 | 11 |
| Lewis & Clark | 42 | 37 | 37 | 0 | 32 | 28 | 21 |
| Liberty | 3 | 3 | 6 | 10 | 11 | 48 | 55 |
| Lincoln | 55 | 0 | 52 | 0 | 56 | 53 | 51 |
| McCone | 13 | 12 | 13 | 8 | 20 | 17 | 41 |
| Madison | 39 | 44 | 26 | 0 | 30 | 39 | 2 |
| Meagher | 46 | 41 | 0 | 0 | 28 | 36 | 24 |
| Mineral | 54 | 51 | 0 | 0 | 55 | 55 | 56 |
| Missoula | 51 | 49 | 47 | 0 | 50 | 47 | 36 |
| Musselshell | 36 | 30 | 43 | 0 | 40 | 29 | 40 |
| Park | 41 | 34 | 45 | 0 | 27 | 24 | 6 |
| Petroleum | 47 | 43 | 46 | 0 | 49 | 51 | 44 |
| Phillips | 15 | 18 | 8 | 17 | 15 | 1 | 10 |

## TABLE XXII - 16
(cont.)

| | All Wheat | Winter Wheat | Spring Wheat Excl. Durum | Durum Wheat | Barley | Oats | All Hay |
|---|---|---|---|---|---|---|---|
| Pondera | 4 | 5 | 17 | 2 | 3 | 23 | 34 |
| Powder River | 31 | 22 | 44 | 0 | 45 | 34 | 27 |
| Powell | 50 | 52 | 40 | 0 | 41 | 50 | 14 |
| Prairie | 32 | 27 | 39 | 0 | 36 | 30 | 47 |
| Ravalli | 48 | 48 | 38 | 0 | 39 | 40 | 17 |
| Richland | 16 | 17 | 12 | 16 | 22 | 2 | 29 |
| Roosevelt | 9 | 29 | 4 | 4 | 33 | 5 | 35 |
| Rosebud | 23 | 15 | 28 | 0 | 31 | 37 | 23 |
| Sanders | 49 | 47 | 49 | 0 | 52 | 49 | 28 |
| Sheridan | 11 | 45 | 9 | 1 | 24 | 8 | 43 |
| Silver Bow | 0 | 0 | 0 | 0 | 53 | 54 | 52 |
| Stillwater | 26 | 16 | 41 | 0 | 19 | 38 | 15 |
| Sweet Grass | 45 | 39 | 0 | 0 | 43 | 20 | 19 |
| Teton | 5 | 4 | 15 | 6 | 2 | 31 | 5 |
| Toole | 6 | 6 | 14 | 3 | 10 | 19 | 54 |
| Treasure | 43 | 46 | 32 | 0 | 48 | 46 | 46 |
| Valley | 7 | 28 | 2 | 0 | 17 | 22 | 18 |
| Wheatland | 35 | 31 | 34 | 0 | 26 | 44 | 38 |
| Wibaux | 29 | 38 | 19 | 13 | 44 | 12 | 50 |
| Yellowstone | 20 | 10 | 29 | 20 | 16 | 13 | 12 |

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 14.

## TABLE XXII - 17

## NUMERICAL RANKING OF MONTANA COUNTIES
## CASH RECEIPTS, 1982, & LIVESTOCK NUMBERS

|  | Cash Receipts, 1982 |  |  | Livestock Numbers |  |  |
|---|---|---|---|---|---|---|
| County | All Products | Livestock & Products | Crops | Cattle* 1/1/83 | Sheep** 1/1/83 | Hogs*** 12/1/82 |
| Beaverhead | 19 | 3 | 34 | 1 | 3 | 27 |
| Big Horn | 7 | 4 | 18 | 2 | 24 | 12 |
| Blaine | 16 | 21 | 16 | 9 | 14 | 14 |
| Broadwater | 30 | 43 | 23 | 37 | 31 | 25 |
| Carbon | 18 | 11 | 21 | 19 | 9 | 20 |
| Carter | 35 | 24 | 38 | 17 | 1 | 27 |
| Cascade | 5 | 2 | 12 | 6 | 12 | 11 |
| Chouteau | 2 | 25 | 1 | 22 | 32 | 1 |
| Custer | 24 | 10 | 28 | 7 | 10 | 24 |
| Daniels | 25 | 44 | 19 | 48 | 37 | 5 |
| Dawson | 20 | 32 | 13 | 29 | 32 | 27 |
| Deer Lodge | 55 | 55 | 53 | 50 | 43 | 37 |
| Fallon | 37 | 41 | 31 | 30 | 26 | 12 |
| Fergus | 10 | 6 | 17 | 3 | 8 | 4 |
| Flathead | 33 | 39 | 26 | 36 | 35 | 7 |
| Gallatin | 12 | 7 | 15 | 10 | 15 | 9 |
| Garfield | 31 | 22 | 33 | 15 | 2 | 23 |
| Glacier | 17 | 30 | 14 | 32 | 28 | 4 |
| Golden Valley | 45 | 28 | 46 | 43 | 18 | 17 |
| Granite | 48 | 38 | 48 | 34 | 39 | 38 |
| Hill | 3 | 42 | 2 | 42 | 40 | 3 |
| Jefferson | 51 | 52 | 49 | 39 | 42 | 26 |
| Judith Basin | 22 | 14 | 24 | 14 | 16 | 28 |
| Lake | 26 | 19 | 25 | 16 | 22 | 10 |
| Lewis & Clark | 38 | 23 | 43 | 28 | 13 | 26 |
| Liberty | 14 | 53 | 6 | 49 | 44 | 7 |
| Lincoln | 54 | 54 | 54 | 52 | 43 | 34 |
| McCone | 23 | 34 | 20 | 33 | 6 | 30 |
| Madison | 29 | 9 | 37 | 4 | 7 | 16 |
| Meagher | 39 | 20 | 47 | 18 | 20 | 26 |
| Mineral | 56 | 56 | 56 | 53 | 44 | 0 |
| Missoula | 50 | 46 | 44 | 47 | 41 | 37 |
| Musselshell | 43 | 33 | 41 | 32 | 11 | 31 |
| Park | 41 | 27 | 42 | 23 | 27 | 29 |
| Petroleum | 49 | 40 | 51 | 35 | 21 | 38 |
| Phillips | 21 | 13 | 22 | 8 | 10 | 20 |

TABLE XXII - 17
(cont.)

| | Cash Receipts, 1982 | | | Livestock Numbers | | |
|---|---|---|---|---|---|---|
| County | All Products | Livestock & Products | Crops | Cattle* 1/1/83 | Sheep** 1/1/83 | Hogs*** 12/1/82 |
| Pondera | 9 | 36 | 4 | 40 | 20 | 2 |
| Powder River | 32 | 18 | 35 | 12 | 5 | 33 |
| Powell | 40 | 26 | 40 | 21 | 38 | 32 |
| Prairie | 36 | 37 | 30 | 32 | 25 | 22 |
| Ravalli | 34 | 15 | 39 | 26 | 19 | 21 |
| Richland | 6 | 5 | 8 | 27 | 23 | 19 |
| Roosevelt | 15 | 35 | 10 | 38 | 30 | 15 |
| Rosebud | 27 | 16 | 27 | 11 | 6 | 21 |
| Sanders | 52 | 50 | 52 | 41 | 36 | 36 |
| Sheridan | 13 | 49 | 7 | 44 | 35 | 21 |
| Silver Bow | 53 | 47 | 55 | 51 | 44 | 38 |
| Stillwater | 28 | 12 | 32 | 25 | 11 | 13 |
| Sweet Grass | 47 | 29 | 50 | 24 | 3 | 18 |
| Teton | 4 | 8 | 5 | 20 | 17 | 6 |
| Toole | 8 | 45 | 3 | 46 | 34 | 7 |
| Treasure | 42 | 51 | 29 | 42 | 43 | 35 |
| Valley | 11 | 17 | 11 | 13 | 29 | 12 |
| Wheatland | 44 | 31 | 45 | 31 | 4 | 8 |
| Wibaux | 46 | 48 | 36 | 45 | 33 | 31 |
| Yellowstone | 1 | 1 | 9 | 5 | 18 | 15 |

* Glacier, Prairie, Hill & Treasure tie in numerical ranking of cattle.

** Beaverhead, Sweet Grass; Chouteau, Dawson; Deer Lodge, Lincoln, Treasure; Flathead, Sheridan; Golden Valley, Yellowstone; Liberty, Mineral, Silver Bow; McCone, Rosebud; Meagher, Pondera; Musselshell, Stillwater; Custer & Phillips tie in numerical ranking of sheep.

*** Beaverhead, Carter, Dawson; Big Horn, Fallon, Valley; Carbon, Phillips; Deer Lodge, Missoula; Fergus, Glacier; Flathead, Liberty, Toole; Granite, Petroleum, Silver Bow; Jefferson, Lewis & Clark, Meagher; Musselshell, Wibaux; Ravalli, Rosebud, Sheridan; Roosevelt & Yellowstone tie in numerical ranking of hogs.

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 15.

## TABLE XXII - 18

## MONTANA FARM INCOME & EXPENDITURES
(thousands of dollars)

| Item | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
|---|---|---|---|---|---|---|
| Cash Receipts from Marketings | 1,030,461 | 1,284,989 | 1,480,805 | 1,487,000 | 1,488,388 | 1,705,133 |
| Total Livestock & Products | 555,341 | 751,933 | 895,527 | 829,453 | 705,717 | 724,805 |
| Meat Animals & Other Livestock | 519,883 | 713,462 | 852,835 | 782,934 | 654,246 | 673,223 |
| Dairy Products | 27,092 | 29,775 | 33,515 | 38,416 | 42,372 | 42,833 |
| Poultry & Poultry Products | 8,366 | 8,696 | 9,177 | 8,103 | 9,099 | 8,749 |
| Total Crops | 475,120 | 533,056 | 585,278 | 657,547 | 782,671 | 980,328 |
| Truck Crops & Melons | 185 | 201 | 191 | 78 | 58 | 67 |
| Fruits, Nuts, & Berries | 1,334 | 1,316 | 2,047 | 469 | 920 | 1,979 |
| Greenhouse & Nursery Products | 1,550 | 1,800 | 2,200 | 2,400 | 2,200 | 2,000 |
| Forest Products | 3,200 | 4,200 | 4,700 | 4,700 | 3,000 | 3,500 |
| All Other Crops | 468,851 | 525,539 | 576,140 | 649,900 | 776,493 | 972,782 |
| Other Income | 180,033 | 270,885 | 190,084 | 209,828 | 248,130 | 297,730 |
| Government Payments | 61,443 | 137,237 | 33,997 | 58,484 | 85,131 | 116,916 |
| Imputed Income & Rent Received | 118,590 | 133,648 | 156,087 | 151,344 | 162,999 | 180,814 |
| Production Expenses | 1,043,865 | 1,288,304 | 1,508,209 | 1,602,726 | 1,769,776 | 1,916,506 |
| Feed Purchased | 62,196 | 99,404 | 121,654 | 120,382 | 118,118 | 99,694 |
| Livestock Purchased | 86,674 | 157,245 | 175,612 | 134,911 | 120,504 | 115,631 |
| Seed Purchased | 7,354 | 26,257 | 30,296 | 16,325 | 20,909 | 21,244 |
| Fertilizer & Lime Purchased | 56,351 | 49,461 | 71,609 | 95,358 | 120,184 | 144,069 |
| Petroleum Products Purchased | 68,597 | 79,427 | 107,907 | 115,526 | 133,789 | 129,483 |
| Hired Farm Labor, excluding Contract Labor | 58,030 | 59,011 | 77,730 | 125,804 | 117,509 | 139,424 |
| Contr. Labor, Machine Hire & Custom Work | 29,133 | 30,783 | 38,218 | 43,479 | 51,909 | 55,111 |
| All Other Production Expenses* | 675,530 | 786,716 | 885,183 | 950,941 | 1,086,854 | 1,211,850 |
| Value of Inventory Change | -113,358 | 12,772 | -60,345 | 17,094 | 211,475 | -25,841 |
| Livestock | -68,321 | -25,697 | 21,274 | 19,336 | 98,452 | 28,587 |
| Crops | -45,037 | 38,469 | -81,619 | -2,242 | 113,023 | -54,428 |

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TABLE XXII - 18
(cont.)

| Item | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 |
|---|---|---|---|---|---|---|
| Derivation of Farm Labor & Proprietors' Income: | | | | | | |
| Total Cash Rcpts. & Other Income | 1,210,494 | 1,555,874 | 1,670,889 | 1,696,828 | 1,736,518 | 2,002,863 |
| Less Total Production Expenses | 1,043,865 | 1,288,304 | 1,508,209 | 1,602,726 | 1,769,776 | 1,916,506 |
| Realized Net Income | 166,629 | 267,570 | 162,680 | 94,102 | -33,258 | 86,357 |
| Plus Value of Inventory Change | -113,358 | 12,772 | -60,345 | 17,094 | 211,475 | -25,841 |
| Total Net Income incl. Corp. Farms | 53,271 | 280,342 | 102,335 | 111,196 | 178,217 | 60,516 |
| Less Corporate Farms | -14,526 | 16,222 | 9,142 | 12,802 | 41,909 | 9,003 |
| Plus Statistical Adjustment | 0 | 0 | (Z) | (Z) | (Z) | (Z) |
| Total Net Farm Proprietors' Income | 67,797 | 264,120 | 93,189 | 98,395 | 136,306 | 51,514 |
| Plus Farm Wages & Perquisites | 74,951 | 78,904 | 99,502 | 147,874 | 139,896 | 162,501 |
| Plus Farm Other Labor Income | 2,085 | 2,218 | 2,531 | 3,058 | 3,344 | 3,254 |
| Total Farm Labor & Prop. Income | 144,833 | 345,242 | 195,222 | 249,327 | 279,546 | 217,269 |

* includes repair & operation of capital items; depreciation, interest, rent & taxes; & other miscellaneous expenses

SOURCE: U.S. Bureau of Economic Analysis, Regional Economic Information System, unpublished data, April 1984.

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Table XXII-19

## Selected Farm Production Expenses: 1982, 1978, and 1974

[For meaning of abbreviations and symbols, see introductory text]

| Item | 1982[1] Farms | 1982[1] Expenses ($1,000) | 1978[1] | 1974 |
|---|---|---|---|---|
| Livestock and poultry purchased ... farms | 8 879 | (X) | 9 529 | 9 825 |
| $1,000 | (X) | 165 312 | 155 273 | 124 203 |
| Farms with expenses of– | | | | |
| $1 to $499 | 1 398 | 250 | 1 784 | 2 447 |
| $500 to $999 | 1 122 | 803 | 1 504 | 1 401 |
| $1,000 to $4,999 | 2 969 | 7 039 | 3 184 | 3 363 |
| $5,000 to $9,999 | 1 261 | 8 645 | 1 105 | 1 018 |
| $10,000 to $14,999 | 554 | 6 575 | 409 | 722 |
| $15,000 to $19,999 | 283 | 4 771 | 280 | |
| $20,000 to $29,999 | 388 | 9 147 | 389 | 874 |
| $30,000 to $39,999 | 230 | 7 770 | 233 | |
| $40,000 to $49,999 | 125 | 5 418 | 97 | |
| $50,000 to $79,999 | 219 | 13 233 | 240 | |
| $80,000 or more | 330 | 101 662 | 304 | |
| Feed for livestock and poultry ... farms | 14 467 | (X) | 15 943 | 15 940 |
| $1,000 | (X) | 110 919 | 108 729 | 123 454 |
| Farms with expenses of– | | | | |
| $1 to $499 | 3 405 | 761 | 4 357 | 3 772 |
| $500 to $999 | 2 233 | 1 529 | 2 311 | 2 248 |
| $1,000 to $4,999 | 5 160 | 12 094 | 5 362 | 6 327 |
| $5,000 to $9,999 | 1 687 | 11 368 | 1 838 | 1 698 |
| $10,000 to $14,999 | 655 | 7 834 | 705 | 1 011 |
| $15,000 to $19,999 | 319 | 5 437 | 338 | |
| $20,000 to $29,999 | 354 | 8 408 | 406 | 884 |
| $30,000 to $39,999 | 222 | 7 534 | 170 | |
| $40,000 to $79,999 | 255 | 13 862 | 302 | |
| $80,000 or more | 177 | 42 292 | 154 | |
| Commercially mixed formula feeds ... farms | 5 000 | (X) | 5 069 | 11 576 |
| $1,000 | (X) | 29 954 | 27 506 | 47 185 |
| Farms by tons purchased: | | | | |
| 1 to 49 tons | 4 243 | (X) | 4 301 | 10 084 |
| 50 to 99 tons | 373 | (X) | 406 | 711 |
| 100 to 199 tons | 220 | (X) | 201 | 342 |
| 200 to 499 tons | 105 | (X) | 123 | 167 |
| 500 to 799 tons | 42 | (X) | 19 | 72 |
| 800 to 999 tons | 2 | (X) | 4 | |
| 1,000 tons or more | 15 | (X) | 15 | |
| Farms with expenses of– | | | | |
| $1 to $499 | 1 489 | 326 | 1 583 | 3 727 |
| $500 to $999 | 716 | 492 | 749 | 1 659 |
| $1,000 to $4,999 | 1 679 | 3 712 | 1 664 | 4 120 |
| $5,000 to $9,999 | 523 | 3 573 | 493 | 955 |
| $10,000 to $14,999 | 165 | 1 927 | 208 | 542 |
| $15,000 to $19,999 | 117 | 2 024 | 120 | |
| $20,000 to $29,999 | 137 | 3 212 | 111 | 373 |
| $30,000 to $39,999 | 44 | 1 481 | 42 | |
| $40,000 to $49,999 | 38 | 1 657 | 33 | |
| $50,000 or more | 92 | 11 549 | 66 | |
| Seeds, bulbs, plants, and trees ... farms | 9 401 | (X) | 8 332 | 8 332 |
| $1,000 | (X) | 20 881 | 12 626 | 10 400 |
| Farms with expenses of– | | | | |
| $1 to $499 | 2 875 | 655 | 3 540 | 4 364 |
| $500 to $999 | 1 658 | 1 143 | 1 588 | 1 362 |
| $1,000 to $4,999 | 3 887 | 8 602 | 2 694 | 2 215 |
| $5,000 to $9,999 | 692 | 4 469 | 346 | 258 |
| $10,000 to $19,999 | 226 | 2 947 | 131 | 133 |
| $20,000 or more | 63 | 3 065 | 33 | |
| Commercial fertilizer ... farms | 10 984 | (X) | 12 652 | 11 005 |
| $1,000 | (X) | 79 823 | 64 950 | 39 053 |
| Farms with expenses of– | | | | |
| $1 to $499 | 2 150 | 509 | 2 042 | 2 300 |
| $500 to $999 | 1 279 | 905 | 1 554 | 1 652 |
| $1,000 to $4,999 | 3 760 | 8 968 | 5 144 | 4 898 |
| $5,000 to $9,999 | 1 501 | 10 377 | 2 213 | 1 308 |
| $10,000 to $19,999 | 1 278 | 17 515 | 1 147 | 597 |
| $20,000 to $29,999 | 492 | 11 722 | 262 | 250 |
| $30,000 to $39,999 | 200 | 6 746 | 127 | |
| $40,000 or more | 324 | 23 080 | 163 | |
| Other agricultural chemicals[2] ... farms | 11 505 | (X) | 13 024 | 10 296 |
| $1,000 | (X) | 43 347 | 27 945 | 12 523 |
| Farms with expenses of– | | | | |
| $1 to $99 | 927 | 45 | 1 431 | 1 600 |
| $100 to $499 | 2 119 | 590 | 2 678 | 3 470 |
| $500 to $999 | 1 302 | 909 | 2 112 | 2 028 |
| $1,000 to $1,999 | 1 921 | 2 743 | 2 573 | 2 744 |
| $2,000 to $4,999 | 2 767 | 8 906 | 2 926 | |
| $5,000 to $9,999 | 1 474 | 10 227 | 857 | 456 |
| $10,000 to $19,999 | 668 | 8 914 | 344 | |
| $20,000 or more | 327 | 11 011 | 103 | |
| Hired farm labor ... farms | 10 207 | (X) | 11 303 | 9 929 |
| $1,000 | (X) | 84 462 | 70 884 | 47 288 |
| Farms with expenses of– | | | | |
| $1 to $99 | 296 | 17 | 520 | 580 |
| $100 to $499 | 1 321 | 362 | 1 806 | 1 923 |
| $500 to $999 | 1 126 | 773 | 1 260 | 1 248 |
| $1,000 to $2,499 | 1 768 | 2 899 | 2 073 | 1 917 |
| $2,500 to $4,999 | 1 770 | 6 223 | 1 894 | 1 682 |
| $5,000 to $9,999 | 1 542 | 10 936 | 1 767 | 1 456 |
| $10,000 to $19,999 | 1 310 | 17 980 | 1 161 | 747 |
| $20,000 to $29,999 | 458 | 10 844 | 419 | 398 |
| $30,000 to $49,999 | 392 | 14 348 | 254 | |
| $50,000 or more | 224 | 20 100 | 149 | |
| Contract labor ... farms | 2 075 | (X) | 2 482 | 2 063 |
| $1,000 | (X) | 6 016 | 5 952 | 4 321 |
| Farms with expenses of– | | | | |
| $1 to $499 | 492 | 136 | 562 | 529 |
| $500 to $999 | 397 | 269 | 452 | 394 |
| $1,000 to $4,999 | 842 | 1 907 | 1 165 | 938 |
| $5,000 to $9,999 | 213 | 1 325 | 226 | 154 |
| $10,000 to $19,999 | 95 | 1 218 | 63 | 48 |
| $20,000 or more | 36 | 1 160 | 14 | |
| Customwork, machine hire, and rental of machinery and equipment ... farms | 8 147 | (X) | 10 452 | 9 558 |
| $1,000 | (X) | 30 980 | 28 763 | 17 688 |
| Farms with expenses of– | | | | |
| $1 to $499 | 1 887 | 453 | 3 397 | 3 829 |
| $500 to $999 | 1 362 | 908 | 1 737 | 1 744 |
| $1,000 to $4,999 | 3 356 | 7 565 | 3 871 | 3 137 |
| $5,000 to $9,999 | 896 | 6 061 | 919 | 585 |
| $10,000 to $19,999 | 395 | 5 199 | 330 | 253 |
| $20,000 or more | 251 | 10 794 | 198 | |
| Energy and petroleum products ... farms | 23 476 | (X) | 23 474 | (NA) |
| $1,000 | (X) | 157 696 | 89 523 | (NA) |
| Farms with expenses of– | | | | |
| $1 to $499 | 3 634 | 935 | 3 851 | (NA) |
| $500 to $999 | 2 945 | 2 128 | 2 941 | (NA) |
| $1,000 to $1,999 | 2 765 | 3 984 | 3 678 | (NA) |
| $2,000 to $4,999 | 4 240 | 14 504 | 7 162 | (NA) |
| $5,000 to $9,999 | 4 557 | 32 741 | 4 079 | (NA) |
| $10,000 to $19,999 | 3 747 | 51 797 | 1 421 | (NA) |
| $20,000 to $39,999 | 1 348 | 35 972 | 290 | (NA) |
| $40,000 or more | 240 | 15 654 | 52 | (NA) |
| Petroleum products ... farms | 23 454 | (X) | 23 457 | 22 936 |
| $1,000 | (X) | 136 526 | 77 033 | 53 259 |
| Farms with expenses of– | | | | |
| $1 to $499 | 4 976 | 1 175 | 5 016 | 5 207 |
| $500 to $999 | 2 755 | 1 927 | 2 861 | 3 293 |
| $1,000 to $1,999 | 2 321 | 3 265 | 3 675 | 11 894 |
| $2,000 to $4,999 | 4 352 | 14 727 | 7 011 | |
| $5,000 to $9,999 | 4 557 | 32 630 | 3 584 | 2 030 |
| $10,000 to $19,999 | 3 261 | 44 454 | 1 087 | 514 |
| $20,000 to $39,999 | 1 063 | 27 517 | 187 | |
| $40,000 or more | 169 | 10 830 | 36 | |
| Interest expense ... farms | 13 560 | (X) | (NA) | (NA) |
| $1,000 | (X) | 207 237 | (NA) | (NA) |
| Farms with expenses of– | | | | |
| $1 to $499 | 1 018 | 236 | (NA) | (NA) |
| $500 to $999 | 973 | 718 | (NA) | (NA) |
| $1,000 to $4,999 | 3 969 | 10 529 | (NA) | (NA) |
| $5,000 to $9,999 | 2 238 | 15 292 | (NA) | (NA) |
| $10,000 or more | 5 362 | 180 463 | (NA) | (NA) |

[1] Data for 1982 and 1978 are based on a sample of farms.
[2] Data for 1978 and 1974 include the cost of lime which was not collected in 1982.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Montana, p. 6.

TABLE XXII - 20

## MONTANA IRRIGATED & NON-IRRIGATED CROPS: 1982-83
(acres harvested)

| County & District | Irrigated | | Non-Irrigated | |
|---|---|---|---|---|
| | 1982 Acres Harvested | 1983 Acres Harvested | 1982 Acres Harvested | 1983 Acres Harvested |
| Deer Lodge | 16,300 | 12,700 | 900 | 900 |
| Flathead | 35,050 | 30,400 | 40,500 | 37,600 |
| Granite | 33,700 | 30,900 | 3,300 | 1,900 |
| Lake | 52,750 | 49,000 | 19,200 | 22,100 |
| Lincoln | 6,800 | 5,600 | 3,800 | 3,600 |
| Mineral | 1,400 | 1,200 | 1,700 | 1,300 |
| Missoula | 20,500 | 18,300 | 18,200 | 10,200 |
| Powell | 36,150 | 47,000 | 11,500 | 12,200 |
| Ravalli | 42,050 | 40,100 | 4,900 | 5,900 |
| Sanders | 14,800 | 15,700 | 15,700 | 14,300 |
| N.West Total | 259,500 | 250,900 | 119,700 | 110,000 |
| Blaine | 35,900 | 35,900 | 243,900 | 223,000 |
| Chouteau | 23,400 | 13,900 | 719,500 | 663,200 |
| Glacier | 31,100 | 19,000 | 219,600 | 222,000 |
| Hill | 6,600 | 5,900 | 554,800 | 522,800 |
| Liberty | 6,300 | 3,900 | 276,300 | 280,700 |
| Phillips | 63,100 | 50,800 | 233,500 | 194,100 |
| Pondera | 48,000 | 45,600 | 272,300 | 246,200 |
| Teton | 90,400 | 86,100 | 199,500 | 232,000 |
| Toole | 3,600 | 2,600 | 324,500 | 298,000 |
| N.Central Total | 308,400 | 263,700 | 3,043,900 | 2,882,000 |
| Daniels | 2,400 | 900 | 314,600 | 239,200 |
| Dawson | 17,260 | 12,620 | 246,900 | 208,200 |
| Garfield | 9,100 | 8,600 | 150,200 | 130,800 |
| McCone | 6,400 | 4,700 | 299,500 | 231,300 |
| Richland | 40,490 | 29,840 | 247,400 | 201,000 |
| Roosevelt | 8,400 | 6,920 | 370,300 | 319,500 |
| Sheridan | 6,300 | 4,700 | 395,100 | 301,700 |
| Valley | 53,900 | 33,300 | 401,700 | 325,400 |
| N.East Total | 144,250 | 101,580 | 2,425,700 | 1,957,100 |
| Broadwater | 32,100 | 41,700 | 43,900 | 35,500 |
| Cascade | 23,600 | 36,500 | 235,600 | 223,800 |
| Fergus | 22,400 | 19,700 | 354,000 | 334,800 |
| Golden Valley | 9,400 | 8,900 | 58,400 | 55,400 |
| Judith Basin | 7,000 | 9,000 | 155,800 | 172,100 |
| Lewis & Clark | 39,800 | 30,600 | 31,500 | 31,500 |
| Meagher | 46,700 | 35,500 | 30,300 | 32,500 |
| Musselshell | 9,500 | 10,800 | 42,700 | 46,700 |
| Petroleum | 13,600 | 10,700 | 24,400 | 17,300 |
| Wheatland | 19,700 | 17,100 | 53,300 | 58,700 |
| Central Total | 223,800 | 220,500 | 1,029,900 | 1,008,300 |

## TABLE XXII - 20
(cont.)

| County & District | Irrigated 1982 Acres Harvested | Irrigated 1983 Acres Harvested | Non-Irrigated 1982 Acres Harvested | Non-Irrigated 1983 Acres Harvested |
|---|---|---|---|---|
| Beaverhead | 169,300 | 157,300 | 6,700 | 8,400 |
| Gallatin | 71,400 | 74,400 | 79,600 | 79,800 |
| Jefferson | 33,300 | 27,200 | 11,300 | 10,000 |
| Madison | 111,750 | 95,100 | 13,900 | 11,400 |
| Silver Bow | 7,800 | 6,200 | 2,000 | 900 |
| S.West Total | 393,550 | 360,200 | 113,500 | 110,500 |
| Big Horn | 42,270 | 37,280 | 157,800 | 146,400 |
| Carbon | 53,200 | 53,260 | 47,200 | 38,500 |
| Park | 49,800 | 42,700 | 32,200 | 33,500 |
| Stillwater | 25,380 | 23,080 | 102,900 | 104,900 |
| Sweet Grass | 42,000 | 34,800 | 22,600 | 24,300 |
| Treasure | 14,790 | 15,180 | 18,100 | 9,800 |
| Yellowstone | 80,330 | 60,460 | 120,700 | 114,900 |
| S.Central Total | 307,770 | 266,760 | 501,500 | 472,300 |
| Carter | 4,600 | 4,500 | 117,800 | 116,000 |
| Custer | 27,550 | 20,000 | 101,800 | 75,200 |
| Fallon | 4,700 | 6,500 | 131,400 | 112,500 |
| Powder River | 14,700 | 9,600 | 93,500 | 86,600 |
| Prairie | 9,680 | 7,580 | 62,300 | 58,000 |
| Rosebud | 29,800 | 25,680 | 91,000 | 89,600 |
| Wibaux | 1,600 | 1,400 | 94,200 | 73,300 |
| S.East Total | 92,630 | 75,260 | 692,000 | 611,200 |
| State Totals | 1,729,900 | 1,538,900 | 7,926,200 | 7,151,400 |

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 19.

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## TABLE XXII - 21

## PRICES RECEIVED BY MONTANA FARMERS
## SELECTED COMMODITIES BY MONTHS: 1979-1984

| Crop & Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Annual Avg. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| All Wheat | | | | | | | | | | | | | |
| 1979 | 2.76 | 2.79 | 2.82 | 2.82 | 2.84 | 3.11 | 3.32 | 3.43 | 3.67 | 3.80 | 3.74 | 3.70 | 3.23 |
| 1980 | 3.63 | 3.71 | 3.64 | 3.66 | 3.66 | 3.80 | 4.11 | 4.00 | 4.12 | 4.24 | 4.47 | 4.40 | 3.96 |
| 1981 | 4.31 | 4.46 | 4.30 | 4.41 | 4.27 | 4.16 | 3.72 | 3.59 | 3.55 | 3.65 | 3.80 | 3.74 | 4.00 |
| 1982 | 3.81 | 3.76 | 3.72 | 3.80 | 3.73 | 3.64 | 3.60 | 3.44 | 3.46 | 3.45 | 3.50 | 3.55 | 3.62 |
| 1983 | 3.54 | 3.52 | 3.62 | 3.64 | 3.76 | 3.69 | 3.71 | 3.71 | 3.73 | 3.71 | 3.64 | 3.55 | 3.65 |
| 1984 | 3.63 | 3.60 | 3.63 | 3.76 | 3.77 | 3.85 | 3.69 | | | | | | |
| Winter Wheat | | | | | | | | | | | | | |
| 1979 | 2.76 | 2.73 | 2.80 | 2.81 | 2.81 | 3.09 | 3.34 | 3.41 | 3.62 | 3.66 | 3.73 | 3.74 | 3.21 |
| 1980 | 3.64 | 3.72 | 3.41 | 3.47 | 3.54 | 3.54 | 3.73 | 3.62 | 3.74 | 3.93 | 4.14 | 4.10 | 3.72 |
| 1981 | 4.13 | 4.22 | 4.13 | 4.12 | 4.08 | 3.99 | 3.63 | 3.52 | 3.57 | 3.67 | 3.85 | 3.73 | 3.89 |
| 1982 | 3.74 | 3.63 | 3.69 | 3.65 | 3.65 | 3.44 | 3.41 | 3.39 | 3.44 | 3.50 | 3.52 | 3.54 | 3.55 |
| 1983 | 3.66 | 3.56 | 3.66 | 3.60 | 3.65 | 3.62 | 3.49 | 3.52 | 3.59 | 3.59 | 3.53 | 3.46 | 3.58 |
| 1984 | 3.54 | 3.46 | 3.44 | 3.53 | 3.56 | 3.65 | 3.40 | | | | | | |
| Spring Wheat, excluding Durum | | | | | | | | | | | | | |
| 1979 | 2.74 | 2.85 | 2.82 | 2.79 | 2.86 | 3.14 | 3.27 | 3.43 | 3.64 | 3.74 | 3.64 | 3.61 | 3.21 |
| 1980 | 3.58 | 3.67 | 3.66 | 3.72 | 3.71 | 3.77 | 3.99 | 4.06 | 4.17 | 4.31 | 4.34 | 4.28 | 3.94 |
| 1981 | 4.28 | 4.27 | 4.35 | 4.51 | 4.38 | 4.29 | 3.81 | 3.72 | 3.54 | 3.63 | 3.75 | 3.78 | 4.03 |
| 1982 | 3.88 | 3.87 | 3.75 | 3.90 | 3.81 | 3.79 | 3.69 | 3.59 | 3.48 | 3.42 | 3.48 | 3.57 | 3.68 |
| 1983 | 3.45 | 3.46 | 3.59 | 3.71 | 3.88 | 3.77 | 3.77 | 3.84 | 3.80 | 3.80 | 3.73 | 3.67 | 3.71 |
| 1984 | 3.70 | 3.71 | 3.80 | 3.85 | 3.95 | 3.99 | 3.90 | | | | | | |
| Barley | | | | | | | | | | | | | |
| 1979 | 1.69 | 1.63 | 1.68 | 1.70 | 1.76 | 1.76 | 1.88 | 1.98 | 2.17 | 2.27 | 2.01 | 2.32 | 1.90 |
| 1980 | 2.16 | 2.07 | 2.03 | 2.12 | 2.11 | 2.14 | 2.26 | 2.39 | 2.42 | 2.60 | 2.71 | 2.83 | 2.32 |
| 1981 | 2.91 | 2.91 | 2.94 | 2.91 | 2.96 | 2.97 | 2.88 | 2.19 | 2.25 | 2.19 | 2.21 | 2.42 | 2.65 |
| 1982 | 2.38 | 2.25 | 2.27 | 2.28 | 2.38 | 2.34 | 2.16 | 2.12 | 1.88 | 1.70 | 1.79 | 2.11 | 2.14 |
| 1983 | 2.06 | 1.94 | 2.14 | 2.20 | 2.19 | 2.16 | 2.20 | 2.22 | 2.27 | 2.38 | 2.42 | 2.47 | 2.22 |
| 1984 | 2.50 | 2.52 | 2.51 | 2.51 | 2.60 | 2.66 | 2.49 | | | | | | |

## TABLE XXII - 21
(cont.)

| Crop & Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Annual Avg. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| All Hay | | | | | | | | | | | | | |
| 1979 | 46.00 | 47.50 | 47.50 | 46.50 | 45.50 | 49.50 | 50.50 | 55.50 | 55.50 | 56.50 | 56.50 | 58.50 | 51.29 |
| 1980 | 54.50 | 53.00 | 55.00 | 56.50 | 55.00 | 60.00 | 65.00 | 66.50 | 65.00 | 67.00 | 67.50 | 64.50 | 60.80 |
| 1981 | 60.00 | 60.00 | 55.00 | 53.00 | 50.00 | 55.00 | 51.00 | 52.00 | 54.00 | 54.00 | 48.00 | 45.00 | 53.08 |
| 1982 | 47.00 | 48.00 | 46.00 | 45.00 | 44.00 | 47.00 | 47.00 | 45.00 | 48.00 | 50.00 | 55.00 | 52.00 | 47.83 |
| 1983 | 51.00 | 51.00 | 48.00 | 50.00 | 50.00 | 50.00 | 50.00 | 54.00 | 60.00 | 60.00 | 65.00 | 70.00 | 55.00 |
| 1984 | 70.00 | 75.00 | 76.00 | 84.50 | 85.00 | 85.00 | 80.00 | | | | | | |
| Beef Cattle | | | | | | | | | | | | | |
| 1979 | 61.20 | 63.90 | 71.70 | 76.00 | 74.00 | 62.90 | 61.40 | 60.30 | 74.10 | 70.10 | 62.90 | 60.60 | 66.59 |
| 1980 | 60.30 | 65.00 | 63.10 | 54.50 | 52.80 | 54.60 | 53.90 | 61.50 | 63.60 | 62.00 | 55.40 | 50.20 | 58.08 |
| 1981 | 55.20 | 57.00 | 55.30 | 57.70 | 52.70 | 51.70 | 49.00 | 48.80 | 54.00 | 51.40 | 48.00 | 43.00 | 51.99 |
| 1982 | 44.10 | 48.90 | 52.90 | 51.60 | 50.70 | 46.00 | 45.20 | 53.50 | 54.00 | 49.30 | 45.20 | 41.90 | 48.61 |
| 1983 | 47.80 | 54.20 | 58.90 | 57.50 | 53.10 | 48.30 | 44.30 | 43.70 | 47.30 | 43.70 | 43.20 | 41.50 | 48.63 |
| 1984 | 45.60 | 53.10 | 56.00 | 51.20 | 49.40 | 44.10 | 45.20 | | | | | | |
| Steers & Heifers | | | | | | | | | | | | | |
| 1979 | 69.50 | 69.60 | 76.30 | 80.40 | 79.60 | 72.80 | 72.90 | 64.80 | 77.00 | 74.00 | 72.00 | 73.00 | 73.49 |
| 1980 | 72.60 | 76.50 | 71.20 | 63.10 | 61.80 | 64.10 | 65.60 | 68.50 | 67.90 | 67.70 | 69.00 | 66.40 | 67.87 |
| 1981 | 65.70 | 67.20 | 62.00 | 65.40 | 60.20 | 61.40 | 58.80 | [illegible].20 | 60.30 | 58.00 | 58.80 | 55.20 | 60.93 |
| 1982 | 55.50 | 57.80 | 60.60 | 60.40 | 60.60 | 58.60 | 57.90 | 60.60 | 60.00 | 57.80 | 57.80 | 57.60 | 58.77 |
| 1983 | 59.40 | 64.90 | 65.90 | 63.70 | 62.00 | 61.60 | 55.10 | 51.90 | 52.60 | 51.70 | 55.30 | 56.70 | 58.40 |
| 1984 | 59.70 | 62.10 | 62.60 | 58.60 | 58.50 | 55.00 | 55.60 | | | | | | |
| Cows | | | | | | | | | | | | | |
| 1979 | 48.20 | 51.80 | 56.30 | 57.60 | 58.40 | 53.40 | 51.70 | 46.60 | 50.00 | 48.00 | 45.00 | 47.00 | 51.17 |
| 1980 | 48.00 | 50.30 | 51.80 | 42.90 | 41.50 | 44.30 | 43.90 | 45.90 | 46.40 | 44.90 | 42.80 | 42.30 | 45.42 |
| 1981 | 44.70 | 46.40 | 43.90 | 42.80 | 41.10 | 43.20 | 42.40 | 42.60 | 40.10 | 37.30 | 34.70 | 34.20 | 41.12 |
| 1982 | 36.70 | 37.20 | 41.70 | 39.30 | 42.60 | 40.90 | 41.40 | 40.40 | 39.10 | 36.90 | 33.00 | 32.10 | 38.45 |
| 1983 | 35.60 | 41.30 | 43.00 | 42.10 | 41.50 | 41.10 | 39.30 | 38.70 | 35.90 | 33.00 | 32.30 | 34.60 | 38.20 |
| 1984 | 35.40 | 39.70 | 42.90 | 39.20 | 39.90 | 40.10 | 40.70 | | | | | | |

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# TABLE XXII - 21
(cont.)

| Crop & Year | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Annual Avg. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Calves** | | | | | | | | | | | | | |
| 1979 | 86.70 | 91.10 | 94.20 | 97.80 | 96.50 | 90.90 | 87.90 | 77.00 | 92.00 | 92.00 | 88.00 | 87.00 | 90.09 |
| 1980 | 85.00 | 90.00 | 82.80 | 72.60 | 70.00 | 73.80 | 73.90 | 73.30 | 77.90 | 77.70 | 75.20 | 71.70 | 77.00 |
| 1981 | 71.70 | 71.00 | 68.20 | 69.60 | 64.50 | 63.40 | 61.50 | 63.20 | 62.20 | 58.40 | 58.60 | 56.30 | 64.05 |
| 1982 | 56.50 | 59.80 | 61.10 | 61.70 | 63.20 | 62.90 | 61.00 | 61.10 | 60.20 | 62.30 | 60.50 | 58.00 | 60.70 |
| 1983 | 64.70 | 66.30 | 67.40 | 67.00 | 67.70 | 65.10 | 56.90 | 55.90 | 54.70 | 57.40 | 58.80 | 60.90 | 61.90 |
| 1984 | 62.20 | 64.80 | 62.50 | 60.70 | 59.90 | 58.70 | 58.80 | | | | | | |
| **Lambs** | | | | | | | | | | | | | |
| 1979 | 82.00 | 82.00 | 70.00 | 72.00 | 71.00 | 65.00 | 65.00 | 65.00 | 68.00 | 67.10 | 64.10 | 69.50 | 70.06 |
| 1980 | 66.20 | 61.30 | 65.80 | 57.30 | 55.60 | 56.80 | 67.50 | 64.30 | 63.70 | 61.00 | 58.40 | 56.60 | 61.21 |
| 1981 | 52.20 | 56.80 | 52.20 | 50.40 | 53.30 | 56.80 | 57.90 | 50.70 | 46.20 | 45.80 | 44.40 | 45.90 | 51.05 |
| 1982 | 47.80 | 50.10 | 57.20 | 54.80 | 56.60 | 52.80 | 52.80 | 50.10 | 48.80 | 46.20 | 46.40 | 48.40 | 51.00 |
| 1983 | 54.40 | 63.90 | 62.50 | 53.80 | 49.60 | 51.40 | 47.40 | 44.80 | 43.00 | 47.00 | 51.30 | 55.00 | 52.03 |
| 1984 | 57.10 | 57.00 | 54.50 | 52.50 | 49.00 | 53.90 | 57.60 | | | | | | |
| **Hogs** | | | | | | | | | | | | | |
| 1979 | 50.70 | 50.00 | 49.10 | 43.70 | 42.40 | 39.00 | 38.50 | 35.00 | 35.60 | 34.10 | 31.90 | 34.40 | 40.37 |
| 1980 | 35.00 | 35.90 | 34.00 | 27.30 | 26.60 | 31.90 | 39.90 | 45.70 | 44.60 | 45.90 | 43.20 | 41.10 | 37.61 |
| 1981 | 38.90 | 42.40 | 39.50 | 38.20 | 39.30 | 43.70 | 43.40 | 46.30 | 44.10 | 43.00 | 37.90 | 37.20 | 41.16 |
| 1982 | 41.40 | 48.50 | 46.20 | 48.90 | 53.40 | 58.40 | 58.30 | 60.10 | 58.50 | 55.20 | 49.30 | 53.60 | 52.65 |
| 1983 | 55.10 | 54.90 | 50.80 | 45.70 | 44.80 | 42.20 | 42.80 | 47.20 | 41.10 | 40.50 | 34.00 | 41.00 | 45.01 |
| 1984 | 44.60 | 42.30 | 42.70 | 43.90 | 43.00 | 44.00 | 48.40 | | | | | | |

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 53.

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## TABLE XXII - 22

## MONTANA WHEAT SHIPPED OUT OF STATE: 1972-83
BY CLASS & DESTINATION
(thousand bushels)

| Crop & Year* | All Wheat |  |  |  | Winter Wheat |  |  |  | Spring Wheat** |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  | East | West | Other | Total | East | West | Other | Total | East | West | Other | Total |
| 1972 | 7,685 | 98,149 | 563 | 106,397 | 4,567 | 52,100 | 67 | 56,734 | 3,118 | 46,049 | 496 | 49,663 |
| 1973 | 2,549 | 84,430 | 184 | 87,163 | 499 | 50,025 | 97 | 50,621 | 2,050 | 34,405 | 87 | 36,542 |
| 1974 | 6,426 | 73,374 | 1,158 | 80,958 | 4,797 | 43,662 | 1,000 | 49,459 | 1,629 | 29,712 | 158 | 31,499 |
| 1975 | 13,440 | 90,196 | 2,041 | 105,677 | 10,637 | 61,863 | 1,260 | 73,760 | 2,803 | 28,333 | 781 | 31,917 |
| 1976 | 12,490 | 74,510 | 1,808 | 88,808 | 9,151 | 48,153 | 495 | 57,799 | 3,339 | 26,357 | 1,313 | 31,009 |
| 1977 | 6,333 | 74,428 | 1,612 | 82,373 | 5,040 | 51,607 | 661 | 57,308 | 1,293 | 22,821 | 951 | 25,065 |
| 1978 | 4,658 | 94,726 | 1,228 | 100,612 | 3,190 | 63,241 | 566 | 66,997 | 1,468 | 31,485 | 662 | 33,615 |
| 1979 | 4,941 | 91,703 | 1,524 | 98,168 | 2,408 | 51,177 | 826 | 54,411 | 2,533 | 40,526 | 698 | 43,757 |
| 1980 | 5,179 | 72,908 | 1,185 | 79,272 | 2,384 | 36,755 | 484 | 39,623 | 2,795 | 36,153 | 701 | 39,649 |
| 1981 | 3,949 | 94,646 | 724 | 99,319 | 1,783 | 46,239 | 331 | 48,353 | 2,166 | 48,407 | 393 | 50,966 |
| 1982 | 2,627 | 120,264 | 806 | 123,697 | 672 | 61,045 | 130 | 61,847 | 1,955 | 59,219 | 676 | 61,850 |
| 1983 | 4,289 | 113,142 | 1,481 | 118,912 | 909 | 51,154 | 203 | 52,266 | 3,380 | 61,988 | 1,278 | 66,646 |

* Crop year July through June the following year until 1976, when the crop year changed to June through May the following year.

** Includes durum wheat.

NOTE: Other includes unknown.

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 46.

## TABLE XXII - 23

## WHEAT SHIPPED OUT OF MONTANA: 1982 & 1983 CROP YEARS BY CLASS, DISTRICT, MODE & DESTINATION*

(thousand bushels)

| District of Origin, Mode & Destination | June 1982 - May 1983 | | | June 1983 - May 1984 | | |
|---|---|---|---|---|---|---|
| | Winter Wheat | Spring** Wheat | All Wheat | Winter Wheat | Spring** Wheat | All Wheat |
| Northwest | 264 | 676 | 940 | 341 | 297 | 638 |
| Northcentral | 31,234 | 28,902 | 60,136 | 29,292 | 31,477 | 60,769 |
| Northeast | 4,962 | 22,127 | 27,089 | 4,474 | 25,109 | 29,583 |
| Central | 15,495 | 5,443 | 20,938 | 9,419 | 5,146 | 14,565 |
| Southwest | 1,369 | 1,514 | 2,883 | 1,278 | 1,102 | 2,380 |
| Southcentral | 5,829 | 2,447 | 8,276 | 5,607 | 2,334 | 7,941 |
| Southeast | 2,694 | 741 | 3,435 | 1,855 | 1,181 | 3,036 |
| State: | | | | | | |
| Truck East | 658 | 693 | 1,351 | 723 | 747 | 1,470 |
| Truck West | 12,069 | 12,210 | 24,279 | 10,375 | 11,243 | 21,618 |
| Truck Other/Unkn. | 130 | 629 | 759 | 170 | 1,237 | 1,407 |
| Total by Truck | 12,857 | 13,532 | 26,389 | 11,268 | 13,227 | 24,495 |
| Rail East | 14 | 1,262 | 1,276 | 186 | 2,633 | 2,819 |
| Rail West | 48,976 | 47,009 | 95,985 | 40,779 | 50,745 | 91,524 |
| Rail Other/Unkn. | 0 | 47 | 47 | 33 | 41 | 74 |
| Total by Rail | 48,990 | 48,318 | 97,308 | 40,998 | 53,419 | 94,417 |
| Total Wheat Shipped | 61,847 | 61,850 | 123,697 | 52,266 | 66,646 | 118,912 |

* Based on data reported by commercial elevators & licensed truckers. Reported data were expanded to represent 100 percent of elevator capacity.

** Includes durum.

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 46.

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TABLE XXII - 24

## MONTANA WHEAT PRODUCTION, STOCKS, & UTILIZATION
1978-1982 MARKETING YEARS
(million bushels)

| Item | 1978 | 1979 | 1980 | 1981 | 1982 |
|---|---|---|---|---|---|
| Supply | | | | | |
| Beginning stocks, farm & commercial | 97.9 | 87.1 | 74.6 | 75.8 | 88.3 |
| Production | 146.1 | 116.5 | 119.8 | 172.8 | 183.6 |
| Total supply | 244.0 | 203.6 | 194.4 | 248.6 | 271.9 |
| Disposition | | | | | |
| Recorded movement out of state* | 113.0 | 107.9 | 95.0 | 115.4 | 138.2 |
| Milled for flour in Montana | 8.3 | 7.9 | 7.9 | 8.9 | 7.7 |
| Used for seed in Montana | 5.4 | 6.4 | 6.4 | 6.0 | 5.0 |
| Used for livestock feed** | 3.0 | 1.7 | 1.9 | 1.8 | 1.9 |
| Unaccounted disappearance (to balance)*** | 27.2 | 5.1 | 7.4 | 28.2 | 5.5 |
| Total disposition | 156.9 | 129.0 | 118.6 | 160.3 | 158.3 |
| Ending stocks, farm & commercial | 87.1 | 74.6 | 75.8 | 88.3 | 113.6 |

* Reported by elevators, licensed truckers, & special survey of truck destinations.

** Utilization for feed includes on farms where grown, cattle feeders, feed mills, & purchased by other farmers for feed.

*** Due to unknown in components, probably most is unrecorded truck movement.

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 47.

## TABLE XXII - 25

## MONTANA WHEAT MOVEMENT TO OREGON & WASHINGTON UTILIZATION & EXPORTS MARKETING YEARS 1978-1982*

(million bushels)

| Item | 1978 | 1979 | 1980 | 1981 | 1982 |
|---|---|---|---|---|---|
| Beginning stocks | 97.9 | 87.1 | 74.6 | 75.8 | 88.3 |
| Production | 146.1 | 116.5 | 119.8 | 172.8 | 183.6 |
| Ending Stocks | -87.1 | -74.6 | -75.8 | -88.3 | -113.6 |
| Total Disposition | 156.9 | 129.0 | 118.6 | 160.3 | 158.3 |
| Shipments of wheat into Oregon & Washington (adjusted for unaccounted disappearance) | 114.8 | 92.7 | 92.5 | 134.5 | 137.4 |
| Estimated Montana wheat milled for flour in Washington & Oregon (includes bulgur) | 21.5 | 16.5 | 21.2 | 20.5 | 18.6 |
| Estimated Montana wheat exported from Oregon & Washington ports | 93.3 | 76.2 | 71.3 | 114.0 | 118.8 |
| Percent of total disposition | 59% | 59% | 60% | 71% | 75% |
| Inspected exports of Hard Red Spring, Hard Red Winter, & Durum from Oregon & Washington ports | 175.1 | 193.1 | 179.0 | 166.5 | 216.2 |
| Montana exports as percent of total HRS, HRW & Durum exports from Oregon & Washington ports | 53% | 39% | 40% | 68% | 55% |

* June 1 - May 31

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 47. Based on information from the Montana Grain Movement project.

## TABLE XXII - 26

## NUMBER OF CATTLE FEEDLOTS IN MONTANA: 1972-81*
(by size of feedlot capacity)

| Year | Total Number of Feedlots | Feedlots by Capacity | | | | |
|---|---|---|---|---|---|---|
| | | Under 1,000 Head | 1,000-1,999 | 2,000-3,999 | 4,000-7,999 | 8,000 & over |
| 1972 | 389 | 317 | 36 | 17 | 14 | 5 |
| 1973 | 305 | 236 | 31 | 20 | 11 | 7 |
| 1974 | 276 | 211 | 26 | 21 | 12 | 6 |
| 1975 | 152 | 102 | 13 | 19 | 13 | 5 |
| 1976 | 119 | 70 | 15 | 16 | 13 | 5 |
| 1977 | 101 | 61 | 8 | 13 | 15 | 4 |
| 1978 | 119 | 75 | 13 | 13 | 16 | 2 |
| 1979 | 73 | 29 | 12 | 14 | 16 | 2 |
| 1980 | 74 | 29 | 12 | 14 | 15 | 4 |
| 1981 | 83 | 45 | 9 | 10 | 14 | 5 |

* Number of feedlots with 1,000 head or more capacity is number of lots operating any time during year. Number of under 1,000 head capacity and total number of feedlots is number at end of year.

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p.66.

## TABLE XXII - 27

## AGRICULTURAL EXPORTS, MONTANA & U.S.
1982 & 1983*
(in millions of dollars)

| Commodity | Montana | | United States | |
|---|---|---|---|---|
| | 1982 | 1983 | 1982 | 1983 |
| Wheat & Products | 511.8 | 415.2 | 7,675.1 | 6,225.8 |
| Feed Grains & Products | 26.1 | 25.0 | 7,684.6 | 7,340.1 |
| Fruits & Preparations | - | - | 1,394.1 | 1,374.3 |
| Vegetables & Preparations | - | - | 1,442.1 | 989.4 |
| Live Animals & Meat | 22.6 | 20.2 | 1,230.3 | 1,189.8 |
| Hides & Skins | 18.8 | 18.9 | 1,021.2 | 997.5 |
| Poultry & Products | 0.4 | - | 579.0 | 451.1 |
| Fats, Oils & Greases | 16.4 | 13.4 | 701.6 | 593.2 |
| Dairy Products | 0.5 | - | 367.8 | 348.0 |
| Other | 23.2 | 24.3 | 16,998.7 | 15,262.0 |
| All Commodities: | 619.8 | 517.0 | 39,094.5 | 34,771.2 |

* for fiscal year ending September 30

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 79.

## TABLE XXII - 28

## U.S. AGRICULTURAL EXPORTS TO 20 LEADING MARKETS: VALUE BY COUNTRY 1982 & 1983

| Country | 1982 |  | 1983 |  | Percent Change |
|---|---|---|---|---|---|
|  | Mil. Dol. | Rank | Mil. Dol | Rank |  |
| Japan | 5,555 | 1 | 6,251 | 1 | +13 |
| Netherlands* | 3,085 | 2 | 2,576 | 2 | -16 |
| Mexico | 1,156 | 9 | 1,942 | 3 | +68 |
| Canada | 1,820 | 4 | 1,844 | 4 | +1 |
| South Korea | 1,581 | 6 | 1,840 | 5 | +16 |
| West Germany | 1,448 | 8 | 1,529 | 6 | +6 |
| USSR | 1,866 | 3 | 1,473 | 7 | -21 |
| Taiwan | 1,155 | 10 | 1,308 | 8 | +13 |
| Spain | 1,681 | 5 | 1,207 | 9 | -28 |
| Egypt | 803 | 14 | 970 | 10 | +21 |
| Belgium-Luxembourg* | 906 | 13 | 834 | 11 | -8 |
| United Kingdom | 915 | 12 | 823 | 12 | -10 |
| Italy | 989 | 11 | 731 | 13 | -26 |
| India | 350 | 24 | 699 | 14 | +100 |
| Venezuela | 671 | 15 | 665 | 15 | -1 |
| Portugal | 578 | 17 | 660 | 16 | +14 |
| China, Mainland | 1,505 | 7 | 544 | 17 | -64 |
| France | 625 | 16 | 485 | 18 | -22 |
| Brazil | 526 | 18 | 479 | 19 | -9 |
| Saudi Arabia | 500 | 19 | 446 | 20 | -11 |

* Not adjusted for transshipments

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 80.

# Table XXII-29
# MONTANA
# Agricultural Energy and Petroleum Products Expenses: 1982 and 1978

(Data are based on a sample of farms.)

| Kind of energy | 1982 |  | 1978 |  |
|---|---|---|---|---|
|  | Farms | Expenses ($1,000) | Farms | Expenses ($1,000) |
| Gasoline and gasohol ............ farms.. | 22 777 | (X) | 22 907 | (X) |
| $1,000.. | (X) | 65 881 | (X) | 40 974 |
| Farms with expenses of– |  |  |  |  |
| $1 to $499 | 6 400 | 1 376 | 6 424 | 1 507 |
| $500 to $999 | 2 544 | 1 718 | 3 707 | 2 617 |
| $1,000 to $1,999 | 3 106 | 4 212 | 5 113 | 7 290 |
| $2,000 to $4,999 | 6 163 | 19 249 | 6 166 | 18 202 |
| $5,000 to $9,999 | 3 350 | 21 935 | 1 271 | 8 063 |
| $10,000 to $19,999 | 1 051 | 12 706 | 191 | 2 398 |
| $20,000 or more | 163 | 4 685 | 35 | 898 |
| Diesel fuel ............ farms.. | 15 950 | (X) | 16 046 | (X) |
| $1,000.. | (X) | 54 491 | (X) | 24 766 |
| Farms with expenses of– |  |  |  |  |
| $1 to $499 | 3 458 | 763 | 5 278 | 1 176 |
| $500 to $999 | 2 013 | 1 333 | 3 014 | 2 112 |
| $1,000 to $1,999 | 2 375 | 3 204 | 3 598 | 4 878 |
| $2,000 to $4,999 | 4 436 | 13 515 | 3 311 | 9 691 |
| $5,000 to $9,999 | 2 459 | 16 181 | 667 | 4 284 |
| $10,000 or more | 1 209 | 19 495 | 178 | 2 624 |
| LP gas, butane, and propane ...... farms.. | 5 025 | (X) | 4 980 | (X) |
| $1,000.. | (X) | 5 629 | (X) | 3 498 |
| Farms with expenses of– |  |  |  |  |
| $1 to $99 | 876 | 33 | 1 219 | 47 |
| $100 to $499 | 1 201 | 301 | 1 676 | 440 |
| $500 to $999 | 1 076 | 728 | 1 016 | 685 |
| $1,000 to $2,499 | 1 042 | 1 345 | 682 | 876 |
| $2,500 to $4,999 | 702 | 1 940 | 338 | 921 |
| $5,000 or more | 128 | 1 281 | 49 | 530 |
| Fuel oil and kerosene[1] ............ farms.. | 2 226 | (X) | 4 201 | (X) |
| $1,000.. | (X) | 1 676 | (X) | 2 058 |
| Farms with expenses of– |  |  |  |  |
| $1 to $99 | 306 | 13 | 850 | 43 |
| $100 to $499 | 704 | 171 | 2 069 | 567 |
| $500 to $999 | 597 | 378 | 838 | 554 |
| $1,000 to $1,999 | 448 | 547 | 324 | 407 |
| $2,000 to $4,999 | 150 | 403 | 93 | 242 |
| $5,000 or more | 21 | 166 | 27 | 245 |
| Natural gas ............ farms.. | 757 | (X) | 910 | (X) |
| $1,000.. | (X) | 1 075 | (X) | 700 |
| Farms with expenses of– |  |  |  |  |
| $1 to $99 | 53 | 2 | 92 | 5 |
| $100 to $499 | 245 | 63 | 512 | 129 |
| $500 to $999 | 200 | 136 | 195 | 127 |
| $1,000 to $1,999 | 156 | 195 | 63 | 83 |
| $2,000 to $4,999 | 73 | 189 | 31 | 90 |
| $5,000 or more | 30 | 489 | 17 | 267 |
| Motor oil and grease[1] ............ farms.. | 23 454 | (X) | 23 456 | (X) |
| $1,000.. | (X) | 7 776 | (X) | 5 036 |
| Farms with expenses of– |  |  |  |  |
| $1 to $99 | 8 549 | 322 | 9 436 | 386 |
| $100 to $499 | 9 662 | 2 214 | 11 413 | 2 386 |
| $500 to $999 | 3 182 | 1 947 | 1 882 | 1 156 |
| $1,000 to $1,999 | 1 526 | 1 816 | 574 | 698 |
| $2,000 to $4,999 | 470 | 1 175 | 143 | 352 |
| $5,000 or more | 43 | 300 | 8 | 58 |
| Electricity ............ farms.. | 18 569 | (X) | 18 024 | (X) |
| $1,000.. | (X) | 20 259 | (X) | 12 004 |
| Farms with expenses of– |  |  |  |  |
| $1 to $99 | 1 424 | 70 | 1 776 | 95 |
| $100 to $499 | 7 289 | 1 916 | 9 436 | 2 491 |
| $500 to $999 | 4 303 | 2 920 | 3 741 | 2 513 |
| $1,000 to $1,999 | 3 086 | 4 130 | 2 067 | 2 733 |
| $2,000 to $4,999 | 1 809 | 5 129 | 758 | 2 116 |
| $5,000 or more | 658 | 6 095 | 246 | 2 057 |
| Other—coal, wood, coke, etc. ...... farms.. | 3 116 | (X) | 1 850 | (X) |
| $1,000.. | (X) | 910 | (X) | 487 |
| Farms with expenses of– |  |  |  |  |
| $1 to $99 | 506 | 27 | 381 | 19 |
| $100 to $499 | 2 110 | 455 | 1 248 | 253 |
| $500 to $999 | 413 | 227 | 174 | 101 |
| $1,000 to $1,999 | 63 | 70 | 31 | 40 |
| $2,000 to $4,999 | 21 | 56 | 15 | 46 |
| $5,000 or more | 4 | 77 | 3 | 27 |

[1] 1982 data include kerosene with fuel oil; 1978 data include kerosene with motor oil and grease.

*Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Montana, p. 7.*

# TABLE XXII - 30

## MONTANA FARM STORAGE CAPACITY & FUEL EXPENSES BY KIND OF FUEL: 1982

| Fuel Expenses Reported | Gasoline & Gasohol | | Diesel Fuel | | LP Gas, Butane & Propane | | Fuel Oil & Kerosene | |
|---|---|---|---|---|---|---|---|---|
| | All Farms | Farms with $5,000 or More | All Farms | Farms with $5,000 or More | All Farms | Farms with $5,000 or More | All Farms | Farms with $5,000 or More |
| Expenses reported: | | | | | | | | |
| Farms | 22,777 | 4,564 | 15,950 | 3,668 | 5,025 | 128 | 2,226 | 21 |
| Dollars (000) | 65,881 | 39,327 | 54,491 | 35,677 | 5,629 | 1,281 | 1,676 | 166 |
| Storage capacity reported: | | | | | | | | |
| Farms | 16,324 | 4,123 | 12,444 | 3,291 | 3,623 | 98 | 1,565 | 18 |
| Gallons (000) | 12,278 | 5,457 | 12,101 | 6,546 | 3,082 | 406 | 784 | 34 |
| Expenses ($000) | 57,502 | 35,530 | 47,813 | 31,990 | 4,493 | 961 | 1,339 | 146 |
| Farms with storage capacity: | | | | | | | | |
| 1-499 gallons | 5,376 | 223 | 3,922 | 155 | 885 | 3 | 793 | 0 |
| 500-999 gallons | 6,394 | 1,438 | 3,920 | 610 | 1,182 | 4 | 512 | 4 |
| 1,000-1,999 gallons | 3,695 | 1,660 | 3,196 | 1,315 | 1,336 | 17 | 248 | 8 |
| 2,000 or more gallons | 859 | 802 | 1,406 | 1,211 | 220 | 74 | 12 | 6 |
| Storage capacity reported as "No": | | | | | | | | |
| Farms | 3,105 | 41 | 1,159 | 37 | 257 | 1 | 117 | 0 |
| Expenses ($000) | 1,916 | 321 | 1,101 | 331 | 109 | (D) | 69 | 0 |
| Storage capacity not reported: | | | | | | | | |
| Farms | 3,348 | 400 | 2,347 | 340 | 1,145 | 29 | 544 | 3 |
| Expenses ($000) | 6,463 | 3,476 | 5,577 | 3,355 | 1,027 | (D) | 267 | 19 |

SOURCE: U.S. Bureau of the Census, 1982 Census of Agriculture, Montana, p. 7.

TABLE XXII - 31

## NUMBER OF WORKERS ON MONTANA FARMS: 1972-82
(Family & Hired Workers)

| Year | January | April | July | October | Annual Average |
|---|---|---|---|---|---|
| Total Workers | | | | | |
| 1972 | 27,000 | 45,000 | 51,000 | 37,000 | 40,000 |
| 1973 | 26,000 | 42,000 | 55,000 | 38,000 | 40,000 |
| 1974 | 22,000 | 37,000 | 51,000 | 39,000 | 37,000 |
| 1975 | 26,000 | 29,000 | 41,000 | 33,000 | 32,000 |
| 1976 | 28,000 | 34,000 | 39,000 | 32,000 | 33,300 |
| 1977 | 22,600 | 36,000 | 41,000 | 28,000 | 31,900 |
| 1978 | 24,500 | 34,100 | 41,000 | 31,600 | 32,800 |
| 1979 | 30,200 | 34,000 | 43,000 | 26,000 | 33,500 |
| 1980 | 25,000 | 35,000 | 42,000 | 34,000 | 34,000 |
| 1981 | 33,600 | 35,000 | | | |
| Family Workers | | | | | |
| 1972 | 23,000 | 33,000 | 31,000 | 28,000 | 29,000 |
| 1973 | 22,000 | 31,000 | 30,000 | 28,000 | 28,000 |
| 1974 | 16,000 | 26,000 | 31,000 | 26,000 | 25,000 |
| 1975 | 18,000 | 20,000 | 26,000 | 23,000 | 22.000 |
| 1976 | 21,000 | 25,000 | 27,000 | 23,000 | 24,000 |
| 1977 | 18,000 | 28,000 | 29,000 | 22,000 | 24,000 |
| 1978 | 20,000 | 27,000 | 27,000 | 26,000 | 25,000 |
| 1979 | 23,300 | 23,000 | 32,000 | 17,000 | 24,000 |
| 1980 | 16,000 | 25,000 | 31,000 | 28,000 | 25,000 |
| 1981 | 16,000 | 25,000 | | | |
| Hired Workers | | | | | |
| 1972 | 4,000 | 12,000 | 20,000 | 9,000 | 11,000 |
| 1973 | 4,000 | 11,000 | 25,000 | 10,000 | 13,000 |
| 1974 | 6,000 | 11,000 | 20,000 | 13,000 | 13,000 |
| 1975 | 8,000 | 9,000 | 15,000 | 10,000 | 11,000 |
| 1976 | 7,000 | 9,000 | 12,000 | 9,000 | 9,300 |
| 1977 | 4,600 | 8,000 | 12,000 | 6,000 | 7,700 |
| 1978 | 4,500 | 7,100 | 14,000 | 5,600 | 7,800 |
| 1979 | 6,900 | 11,000 | 11,000 | 9,000 | 9,500 |
| 1980 | 9,000 | 10,000 | 11,000 | 6,000 | 9,000 |
| 1981* | 9,600 | 10,000 | | | |

* Series discontinued after April 1981.

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1982, p. 19.

## TABLE XXII - 32

### FARM WAGE RATES: 1972-1982
(paid to all hired workers in dollars per hour)

| Year | January | April | July | October | Annual Average |
|---|---|---|---|---|---|
| 1972 | 1.80 | 1.80 | 1.80 | 1.93 | 1.83 |
| 1973 | 1.95 | 2.00 | 2.04 | 2.08 | 2.02 |
| 1974 | 2.22 | 1.84 | 1.97 | 2.35 | 2.10 |
| 1975 | 2.38 | 1.94 | 1.89 | 2.55 | 2.19 |
| 1976 | 2.53 | 2.20 | 2.08 | 2.42 | 2.31 |
| 1977 | 2.58 | 2.30 | 2.10 | 2.37 | 2.34 |
| 1978 | 2.50 | 2.72 | 2.38 | 2.53 | 2.49 |
| 1979 | 2.84 | 2.80 | 2.52 | 2.93 | 2.74 |
| 1980 | 3.25 | 3.14 | 2.67 | 3.17 | 3.03 |
| 1981* | 2.52 | 3.14 | | | |

* Series discontinued after April 1981.

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1982, p. 19.

## TABLE XXII - 33

### MONTANA FARM PAYROLL, EMPLOYMENT & CONTRACT LABOR EXPENSES: 1982 & 1978

| Labor Expenses Reported | All Farms 1982 | All Farms 1978 | Farms w/Sales of $10,000 or More 1982 | Farms w/Sales of $10,000 or More 1978 |
|---|---|---|---|---|
| Hired Farm Labor: | | | | |
| Farms | 10,207 | 11,303 | 8,419 | 9,446 |
| Workers | 34,754 | 40,194 | 30,006 | 35,466 |
| Payroll ($000) | 84,462 | 70,884 | 81,737 | 68,879 |
| Workers by Days Worked: | | | | |
| 150 Days or More | | | | |
| Farms | 5,101 | 5,302 | 4,864 | 5,105 |
| Workers | 11,039 | 11,594 | 10,626 | 11,293 |
| Less than 150 Days | | | | |
| Farms | 8,021 | 9,073 | 6,375 | 7,350 |
| Workers | 23,715 | 28,600 | 19,380 | 24,173 |
| Contract Labor | | | | |
| Farms | 2,075 | 2,482 | 1,667 | 2,093 |
| Expenses ($000) | 6,016 | 5,952 | 5,747 | 5,558 |

SOURCE: U.S. Bureau of the Census, 1982 Census of Agriculture, Montana, p. 7.

## TABLE XXII - 34

## TAXABLE VALUE OF MONTANA AGRICULTURAL LAND & IMPROVEMENTS: 1979 - 1982

(in thousands of dollars)

| Item | 1979 Taxable Value | 1980 Taxable Value | 1981 Taxable Value | 1982 Taxable Value |
|---|---|---|---|---|
| Agricultural Land: | $146,918,684 | $146,231,403 | $146,195,865 | $146,571,946 |
| Irrigated | 14,032,635 | 13,956,940 | 13,940,057 | 15,076,828 |
| Non-Irrigated | 80,435,663 | 80,786,955 | 81,101,149 | 80,682,569 |
| Grazing Land | 39,067,867 | 39,527,778 | 39,202,835 | 38,851,408 |
| Orchard Land | 0 | 0 | 0 | 59,865 |
| Wild Hay Land | 5,472,561 | 5,525,741 | 5,557,924 | 5,554,345 |
| Timberland | 7,909,958 | 6,433,989 | 6,393,900 | 6,346,931 |
| Improvements: | 49,366,174 | 52,817,298 | 56,420,208 | 58,225,178 |

SOURCE: Montana Dept. of Revenue, Biennial Reports (some unpublished)

## TABLE XXII - 35

## MONTANA LOAN DELINQUENCY RATE BY SIZE OF FARM: 1984

| Size of Farm (acres) | % Real Estate Loans Delinquent | % Non-Real Estate Loans Delinquent |
|---|---|---|
| 499 or Less | 25.0 | 31.8 |
| 500 - 999 | 28.6 | 37.5 |
| 1,000 - 1,999 | 14.3 | 24.5 |
| 2,000 - 2,999 | 18.8 | 34.1 |
| 3,000 - 4,999 | 13.6 | 32.1 |
| 5,000 - 9,999 | 8.6 | 31.8 |
| More than 10,000 | 12.7 | 28.3 |
| State Total: | 17.6 | 30.6 |

SOURCE: Montana Crop & Livestock Reporting Service, "Montana Agricultural Finance Summary," 1984. Funded by the Governor's Council for Economic Development, Montana Dept. of Commerce. Hereinafter MCLRS, "Montana Agricultural Finance Summary," 1984.

## TABLE XXII - 36

## MONTANA FARM NUMBERS, ASSETS & DEBT COMPARISONS: 1984

| Year | Number of Farms | Avg. Value per Acre ($) | Avg. Farm Assets ($000) | Avg. Total Debt ($000) | Debt/Assets Debt (%) |
|---|---|---|---|---|---|
| 1979 | 23,700 | $195 | $677,004 | $118,873 | 17.6 |
| 1980 | 23,800 | 227 | 780,475 | 138,832 | 17.7 |
| 1981 | 23,900 | 232 | 813,603 | 150,615 | 18.5 |
| 1982 | 24,000 | 254 | 846,829 | 166,970 | 19.7 |
| 1983 | 24,000 | 236 | 812,329 | 179,250 | 22.1 |
| 1984 | 24,000 | (NA) | 769,114 | 216,854 | 28.2 |

SOURCE: 1979-1983 from U.S. Dept. of Agriculture, Economic Research Service; 1984 from Survey of Montana Farmers, October 1984. In MCLRS, "Montana Agricultural Finance Summary," 1984.

## TABLE XXII - 37

## MAJOR CAUSE OF FARM PROBLEMS IN MONTANA: 1984
(in percent)

| Reason | All Farmers & Ranchers | Cash Grain | Livestock Producers | Commercial Banks | FmHA | PCAs | Fed. Land Bank |
|---|---|---|---|---|---|---|---|
| Bought Land too high | 3.7 | 3.1 | 4.3 | 5.0 | - | - | - |
| High Cost of Equip. | 12.9 | 15.2 | 13.7 | 6.3 | - | - | - |
| High Interest Rates | 22.3 | 19.9 | 23.1 | 17.5 | 50.0 | 10.0 | 13.3 |
| Govt. Farm Programs | 4.8 | 3.6 | 6.7 | 2.5 | - | - | - |
| High Input Costs | 10.0 | 7.6 | 9.8 | 6.2 | - | 30.0 | 6.7 |
| Low Market Prices | 36.0 | 36.9 | 33.1 | 39.4 | - | 60.0 | 40.0 |
| Natural Disasters | 8.7 | 11.5 | 8.9 | 6.9 | 20.0 | - | 20.0 |
| Other* | 1.6 | 2.1 | 8.4 | 16.2 | 30.0 | - | 20.0 |
| Total: | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

* Includes poor management, over-mechanized, and all other.

SOURCE: MCLRS, "Montana Agricultural Finance Summary," 1984.

## TABLE XXII - 38

## MONTANA AGRICULTURAL MORTGAGE DELINQUENCIES: 1984

| Item | Federal Land Bank | FmHA | PCA |
|---|---|---|---|
| Loans | 8,427 | 3,549 | 4,557 |
| Real Estate Loans (%) | 100 | 34 | NA |
| Non-Real Estate Loans (%) | NA | 36 | 100 |
| Loans Delinquent (%) | 2 | 40 | 7 |
| Real Estate Loans Delinquent January 1 (number): | | | |
| 1981 | 261 | 449 | NA |
| 1982 | 339 | 901 | NA |
| 1983 | 333 | 1,673 | NA |
| 1984 | 366 | 1,874 | NA |
| Non-Real Estate Loans Delinquent January 1 (number): | | | |
| 1981 | NA | 282 | 67* |
| 1982 | NA | 401 | 103* |
| 1983 | NA | 768 | 84* |
| 1984 | NA | 921 | 112* |

NA - Not available.

* Data not complete for three PCA offices.

SOURCE: MCLRS, "Montana Agricultural Finance Summary," 1984.

## TABLE XXII - 39

### MONTANA FARM ECONOMIC INFORMATION BY CROP REPORTING DISTRICTS: 1984
(average per farm)

| Item | N West | N Central | N East | Central | S West | S Central | S East | State |
|---|---|---|---|---|---|---|---|---|
| Assets ($000) | 576 | 794 | 599 | 894 | 1,122 | 878 | 707 | 769 |
| Liabilities ($000) | 114 | 198 | 181 | 265 | 313 | 289 | 238 | 217 |
| Debt/Asset Ratio (%) | 19.8 | 25.0 | 30.2 | 29.6 | 27.9 | 32.9 | 33.7 | 28.2 |
| Interest Pd. in 1983 ($000) | 15 | 19 | 21 | 24 | 28 | 33 | 25 | 22 |
| Avg. Interest Rate Paid for: | | | | | | | | |
| Real Estate (%) | 10.2 | 10.7 | 10.7 | 10.4 | 10.4 | 10.2 | 9.0 | 10.4 |
| Non-Real Estate (%) | 15.0 | 13.7 | 14.0 | 14.0 | 13.2 | 14.0 | 13.5 | 13.9 |
| Income from Non-Farm Sources (%) | 29.3 | 11.2 | 17.9 | 24.8 | 28.3 | 18.8 | 11.8 | 18.6 |
| Real Estate Loans Delinquent (%) | 13.5 | 16.0 | 34.4 | 11.9 | 16.3 | 10.4 | 12.4 | 17.6 |
| Operating Loans Delinquent (%) | 25.3 | 30.8 | 36.6 | 30.4 | 38.4 | 26.3 | 26.5 | 30.6 |
| Time Farm Operator Expects to Stay in Business Under Current Economic Conditions: (%) | | | | | | | | |
| 1 Yr | 8.6 | 9.5 | 8.3 | 11.3 | 7.1 | 7.4 | 10.6 | 9.4 |
| 2 - 5 Yrs | 37.1 | 35.8 | 38.6 | 29.9 | 42.9 | 27.8 | 37.9 | 35.1 |
| 6 - 10 Yrs | 8.6 | 8.0 | 5.2 | 6.2 | 7.1 | 5.6 | 15.1 | 7.8 |
| Until Retirement | 45.7 | 46.7 | 47.9 | 52.6 | 42.9 | 59.2 | 36.4 | 47.7 |

SOURCE: MCLRS "Montana Agricultural Finance Summary", 1984.

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## TABLE XXII - 40

## REASONS MONTANA FARM BORROWERS FAIL TO QUALITY FOR FINANCING: 1984

| Reason | Percent |
|---|---|
| Income Prospects Inadequate | 63 |
| Borrower's Equity Insufficient | 23 |
| History of Poor Management by Operator | 9 |
| Other | 5 |
| Total | 100 |

SOURCE: MCLRS, "Montana Agricultural Finance Summary," 1984.

## TABLE XXII - 41

## MONTANA FARM FINANCE BALANCE SHEET
## BY GROSS FARM INCOME: 1984

| Gross Farm Income | No. of Reports | Debt/Asset Ratio Avg. (%) | Farm Assets Avg. ($) | Farm Debt Avg. ($) | Debt in Land Contracts (%) | Int. Paid Avg. ($) |
|---|---|---|---|---|---|---|
| Less than $10,000 | 19 | 14.6 | 230,418 | 33,582 | 26.9 | 3,543 |
| $10,000 - $19,999 | 27 | 17.1 | 418,961 | 71,533 | 27.0 | 6,982 |
| $20,000 - $39,999 | 57 | 26.1 | 371,108 | 96,740 | 31.5 | 9,084 |
| $40,000 - $69,999 | 63 | 21.8 | 506,527 | 110,196 | 40.0 | 15,729 |
| $70,000 - $99,999 | 86 | 29.3 | 795,464 | 232,780 | 49.3 | 23,745 |
| $100,000 - $199,999 | 104 | 28.9 | 1,063,302 | 306,903 | 45.9 | 30,999 |
| More than $200,000 | 53 | 34.1 | 2,007,900 | 684,813 | 47.1 | 65,844 |
| State Total: | 414 | 28.2 | 769,114 | 216,854 | 39.7 | 22,241 |

SOURCE: MCLRS, "Montana Agricultural Finance Summary," 1984.

## TABLE XXII - 42

## MONTANA FARM FINANCE BALANCE SHEET
## BY DEBT/ASSET RATIO: 1984

| Debt/Asset Ratio Category | No. of Reports | Debt/Asset Ratio Avg. (%) | Farm Assets Avg. ($) | Farm Debt Avg. ($) | Debt in Land Contracts (%) | Int. Paid Avg. ($) |
|---|---|---|---|---|---|---|
| 0% | 77 | 0 | 573,702 | 0 | 0 | 48 |
| 0% - 10% | 58 | 4.3 | 805,751 | 34,866 | 32.4 | 4,865 |
| 10% - 20% | 53 | 14.0 | 883,587 | 123,679 | 52.3 | 15,587 |
| 20% - 30% | 41 | 24.6 | 1,097,016 | 270,009 | 60.1 | 31,168 |
| 30% - 40% | 43 | 33.8 | 907,062 | 306,881 | 55.5 | 30,070 |
| 40% - 50% | 43 | 43.7 | 894,245 | 390,499 | 48.7 | 40,251 |
| 50% - 60% | 52 | 53.8 | 764,533 | 411,426 | 57.1 | 36,762 |
| 60% - 70% | 19 | 63.8 | 470,708 | 300,628 | 57.3 | 33,969 |
| More than 70% | 28 | 82.2 | 601,765 | 494,965 | 53.7 | 49,279 |
| State Total: | 414 | 28.2 | 769,114 | 216,854 | 39.7 | 22,241 |

SOURCE: MCLRS, "Montana Agricultural Finance Summary," 1984.

TABLE XXII - 43

## MONTANA FARM FINANCE BALANCE SHEET
## BY TYPE OF FARM: 1984

| Type of Farm | No. of Reports | Debt/Asset Ratio Avg. (%) | Farm Assets Avg. ($) | Farm Debt Avg. ($) | Debt in Land Contracts (%) | Int. Paid Avg. ($) |
|---|---|---|---|---|---|---|
| Cash Grains Only | 78 | 23.4 | 799,472 | 186,710 | 33.1 | 15,978 |
| Mostly Crops | 106 | 30.8 | 763,397 | 235,281 | 51.5 | 24,296 |
| Livestock Only | 91 | 24.5 | 681,227 | 166,685 | 33.2 | 16,108 |
| Mostly Livestock | 119 | 30.1 | 787,260 | 237,107 | 42.5 | 26,240 |
| All Other | 20 | 34.4 | 912,546 | 313,605 | 27.4 | 35,713 |
| State Total: | 414 | 28.2 | 769,114 | 216,854 | 39.7 | 22,241 |

SOURCE: MCLRS, "Montana Agricultural Finance Summary," 1984.

TABLE XV - 44

## MONTANA FARM FINANCE BALANCE SHEET
## BY AGE OF OPERATOR: 1984

| Age Category of Operator | No. of Reports | Debt/Asset Ratio Avg. (%) | Farm Assets Avg. ($) | Farm Debt Avg. ($) | Debt in Land Contracts (%) | Int. Paid Avg. ($) |
|---|---|---|---|---|---|---|
| 24 Yrs or Less | 2 | 35.1 | (D) | (D) | (D) | (D) |
| 25 - 34 Yrs | 50 | 35.9 | 855,443 | 307,429 | 43.2 | 24,734 |
| 35 - 44 Yrs | 65 | 32.1 | 837,180 | 269,033 | 49.1 | 30,001 |
| 45 - 54 Yrs | 102 | 37.2 | 762,777 | 283,717 | 50.7 | 26,827 |
| 55 - 64 Yrs | 138 | 20.3 | 787,887 | 159,969 | 38.4 | 18,863 |
| More than 65 Yrs | 57 | 16.7 | 568,179 | 94,816 | 12.8 | 11,171 |
| State Total: | 414 | 28.2 | 769,114 | 216,854 | 39.7 | 22,241 |

SOURCE: MCLRS, "Montana Agricultural Finance Summary," 1984.

## TABLE XXII - 45

## MONTANA FARM FINANCE BALANCE SHEET
BY SIZE OF FARM: 1984
(in acres)

| Size of Farm (in acres) | No. of Reports | Debt/Asset Ratio Avg. (%) | Farm Assets Avg. ($) | Farm Debt Avg. ($) | Debt in Land Contracts (%) | Int. Paid Avg. ($) |
|---|---|---|---|---|---|---|
| 499 or Less | 37 | 37.1 | 331,619 | 122,947 | 37.2 | 15,003 |
| 500 - 999 | 41 | 32.2 | 544,724 | 175,632 | 32.9 | 18,940 |
| 1,000 - 1,999 | 71 | 25.2 | 576,982 | 145,403 | 35.7 | 14,674 |
| 2,000 - 2,999 | 67 | 29.2 | 631,650 | 184,474 | 44.8 | 19,945 |
| 3,000 - 4,999 | 73 | 21.8 | 977,002 | 213,546 | 41.5 | 22,795 |
| 5,000 - 9,999 | 57 | 34.8 | 1,448,882 | 503,525 | 56.5 | 45,186 |
| More than 10,000 | 68 | 24.7 | 1,872,600 | 462,893 | 42.6 | 44,447 |
| State Total: | 414 | 28.2 | 769,114 | 216,854 | 39.7 | 22,241 |

SOURCE: MCLRS, "Montana Agricultural Finance Summary," 1984.

# CHAPTER XXIII

# CLIMATE

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## TABLE XXIII - 1

## MONTANA'S CLIMATE: WITH COMPARISONS

| Area | Jan. | Mar. | May | July | Sept. | Nov. | Annual |
|---|---|---|---|---|---|---|---|
| Average Maximum Daytime Temperature: | | | | | | | |
| Montana | 27.6 | 41.3 | 67.5 | 85.9 | 71.2 | 41.2 | (X) |
| Colorado | 39.5 | 51.4 | 70.9 | 87.1 | 77.5 | 51.9 | (X) |
| Illinois | 35.6 | 49.4 | 72.9 | 87.5 | 78.1 | 50.0 | (X) |
| Minnesota | 21.5 | 37.0 | 65.9 | 82.0 | 70.2 | 38.9 | (X) |
| Utah | 36.0 | 52.7 | 73.4 | 92.4 | 80.1 | 51.6 | (X) |
| Washington | 39.5 | 52.8 | 69.9 | 83.7 | 74.6 | 48.8 | (X) |
| Wisconsin | 26.7 | 40.0 | 67.1 | 83.3 | 72.0 | 42.9 | (X) |
| Average Temperature: (°F, 1921 - 1950) | | | | | | | |
| Billings | 23.2 | 33.7 | 56.8 | 74.7 | 60.4 | 35.1 | (X) |
| Great Falls | 22.1 | 30.7 | 53.0 | 69.4 | 57.4 | 34.3 | (X) |
| Helena | 18.6 | 31.4 | 52.9 | 68.4 | 56.0 | 31.6 | (X) |
| Bozeman | 20.3 | 30.1 | 51.3 | 66.4 | 55.8 | 31.9 | (X) |
| Butte | 15.1 | 26.3 | 47.3 | 62.7 | 51.2 | 27.7 | (X) |
| Missoula | 19.2 | 33.7 | 52.6 | 67.0 | 55.4 | 30.5 | (X) |
| Kalispell | 19.8 | 31.8 | 52.2 | 65.7 | 54.7 | 31.0 | (X) |
| Minneapolis | 14.6 | 30.9 | 58.5 | 74.1 | 62.2 | 33.0 | (X) |
| Spokane | 25.3 | 38.1 | 56.2 | 70.5 | 60.9 | 35.7 | (X) |
| Salt Lake City | 26.5 | 41.1 | 58.9 | 76.6 | 64.2 | 39.3 | (X) |
| Madison | 19.1 | 32.5 | 57.5 | 73.0 | 62.1 | 35.3 | (X) |
| Denver | 28.7 | 37.8 | 56.3 | 72.8 | 62.7 | 39.3 | (X) |
| Chicago | 24.9 | 37.0 | 59.2 | 74.6 | 65.6 | 39.5 | (X) |
| Average Precipitation: (inches, 1921 - 1950) | | | | | | | |
| Billings | 0.54 | 1.05 | 1.88 | 0.90 | 1.19 | 0.63 | 13.23 |
| Great Falls | 0.61 | 0.92 | 2.10 | 1.28 | 1.20 | 0.75 | 14.07 |
| Helena | 0.47 | 0.70 | 1.56 | 1.03 | 0.95 | 0.57 | 10.85 |
| Bozeman | 0.90 | 1.52 | 2.34 | 1.14 | 1.57 | 1.05 | 17.38 |
| Butte | 0.42 | 0.65 | 1.74 | 1.20 | 1.04 | 0.49 | 11.48 |
| Missoula | 0.92 | 0.73 | 1.87 | 0.85 | 1.02 | 0.90 | 12.83 |
| Kalispell | 1.37 | 0.96 | 1.67 | 1.04 | 1.04 | 1.43 | 15.42 |
| Minneapolis | 0.80 | 1.48 | 3.12 | 2.67 | 2.85 | 1.44 | 24.71 |
| Spokane | 2.44 | 1.50 | 1.21 | 0.38 | 0.75 | 2.24 | 17.19 |
| Salt Lake City | 1.20 | 1.66 | 1.56 | 0.61 | 0.74 | 1.42 | 14.74 |
| Madison | 1.31 | 1.83 | 3.27 | 3.30 | 3.99 | 2.29 | 30.00 |
| Denver | 0.50 | 1.19 | 2.20 | 1.36 | 1.08 | 0.70 | 14.20 |
| Chicago | 1.84 | 2.85 | 3.66 | 2.73 | 3.23 | 2.33 | 32.72 |

SOURCE: Long-time records of the National Oceanic & Atmospheric Administration, Environmental Data Service (for major cities in each state).

TABLE XXIII - 2

## AVERAGE SNOWFALL IN MONTANA'S LARGER CITIES
(in inches by months, 40 yrs. of records)

| City | Elev. (ft.) | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec. | Annual Total* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Billings | 3124 | 9.3 | 8.3 | 10.0 | 7.9 | 1.1 | - | - | - | 1.0 | 3.2 | 6.3 | 8.6 | 55.7 |
| Bozeman | 4795 | 15.0 | 9.7 | 16.9 | 10.5 | 2.9 | 0.3 | - | - | 0.5 | 4.3 | 10.9 | 12.5 | 83.5 |
| Butte | 5530 | 7.3 | 7.2 | 9.3 | 4.6 | 4.4 | 0.4 | - | - | 1.1 | 2.6 | 6.1 | 8.0 | 51.0 |
| Glasgow | 2092 | 6.9 | 4.0 | 3.5 | 3.0 | 0.5 | - | - | - | - | 1.5 | 2.8 | 4.6 | 26.9 |
| Great Falls | 3330 | 9.9 | 8.4 | 9.5 | 7.7 | 1.3 | 0.4 | - | - | 1.3 | 3.0 | 7.4 | 8.5 | 57.4 |
| Havre | 2489 | 9.8 | 5.2 | 5.8 | 9.3 | - | - | - | - | 0.3 | 1.0 | 4.0 | 7.3 | 42.9 |
| Helena | 4157 | 9.0 | 6.2 | 7.2 | 5.4 | 1.5 | 0 | 0 | 0 | 1.5 | 2.0 | 6.7 | 8.3 | 47.9 |
| Kalispell | 2956 | 19.6 | 10.9 | 6.5 | 2.3 | 1.2 | 0 | 0 | 0 | 0 | 1.6 | 8.7 | 16.5 | 67.4 |
| Miles City | 2371 | 6.4 | 5.3 | 5.3 | 3.4 | 0.5 | - | - | - | 0.3 | 1.5 | 3.6 | 5.5 | 31.9 |
| Missoula | 3213 | 13.3 | 8.2 | 6.1 | 2.6 | 0.8 | - | - | - | - | 0.9 | 6.2 | 10.9 | 49.0 |
| State Avg. | 3406 | 10.7 | 7.3 | 8.0 | 5.7 | 1.4 | 0.1 | 0 | 0 | 0.6 | 2.2 | 6.3 | 9.1 | 51.4 |

* may not be exact due to rounding of figures

AVERAGE ANNUAL SNOWFALL (inches) AND ELEVATION (feet) FOR SELECTED CITIES IN THE U.S. (ENTIRE PERIOD OF RECORD)

| | | |
|---|---|---|
| Albany, NY 67.3 (200); | Buffalo, NY 89.0 (585); | Chicago, IL 39.7 (595); |
| Cleveland, OH 50.5 (660); | Denver, CO 58.7 (5280); | Hartford, CT 56.3 (40); |
| Milwaukee, WI 43.7 (635); | Minneapolis, MN 45.1 (815); | Salt Lake City, UT 56.3 (4390) |

SOURCE: National Oceanic & Atmospheric Administration, Statistical Abstract of the United States, and the World Almanac

TABLE XXIII - 3

## MONTANA CLIMATOLOGICAL DATA
## PRECIPITATION & NUMBER OF DAYS BETWEEN FREEZING TEMPERATURES
## 1982 - 1983

| | | Precipitation, inches | | | | | | Number of Days Between Dates of Temp. of 32°F, Last in Spring & First in Fall[1] | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Annual | | | Growing Season April - September | | | | | |
| County & District | Stations | 1982 | 1983 | Normal[2] | 1982 | 1983 | Normal[2] | 1982 | 1983 | Normal[3] |
| Deer Lodge | Anaconda | (NA) | 15.85 | 13.84 | (NA) | 10.30 | 8.82 | (NA) | 116 | (NA) |
| Flathead | Kalispell | 19.49 | 17.82 | 15.93 | 10.48 | 10.17 | 8.37 | 103 | 77 | 135 |
| Granite | Philipsburg | (NA) | 16.06 | 14.22 | (NA) | 12.13 | 9.77 | 37 | 44 | 55 |
| Lake | St. Ignatius | 18.27 | 19.35 | 16.18 | 10.97 | 14.10 | 9.91 | 108 | 118 | 119 |
| Lincoln | Fortine | 17.82 | 17.51 | 17.25 | 10.30 | 10.12 | 9.60 | 99 | 99 | 39 |
| Mineral | Superior | 15.04 | 15.93 | 17.46 | 8.88 | 9.20 | 8.14 | 126 | 126 | 85 |
| Missoula | Missoula | 15.38 | 16.71 | 13.29 | 8.61 | 10.71 | 7.12 | 148 | 127 | 112 |
| Powell | Ovando | 16.18 | 15.29 | 16.43 | 7.56 | 9.86 | 8.49 | 26 | 52 | 39 |
| Ravalli | Hamilton | 15.85 | 14.29 | 13.11 | 8.73 | 9.20 | 6.93 | 104 | 122 | 122 |
| Sanders | Thompson Falls | 29.86 | 22.28 | 22.77 | 10.82 | 10.27 | 8.53 | 127 | 127 | 115 |
| Northwest Averages | | 18.49 | 17.11 | 16.05 | 9.54 | 10.61 | 8.57 | 97 | 101 | 91 |
| Blaine | Chinook | (NA) | 17.24 | 11.93 | (NA) | 14.17 | 9.05 | 105 | 95 | 119 |
| Chouteau | Fort Benton | 18.64 | 15.24 | 14.60 | 12.98 | 10.73 | 10.06 | 107 | 116 | 127 |
| Glacier | Cut Bank | (NA) | 8.59 | 11.99 | (NA) | 7.21 | 9.69 | 106 | 110 | 108 |
| Hill | Havre | 14.99 | 12.60 | 11.16 | 10.74 | 9.89 | 7.96 | 105 | 115 | 138 |
| Liberty | Joplin | 10.94 | 10.17 | 10.58 | 8.99 | 8.43 | 8.67 | 103 | 112 | 115 |
| Phillips | Malta | 15.70 | 10.42 | 11.58 | 13.57 | 8.46 | 9.12 | 108 | 118 | 131 |
| Pondera | Valier | 13.47 | 7.97 | 12.28 | 11.01 | 5.58 | 10.05 | 106 | 127 | 114 |
| Teton | Fairfield | 13.00 | 9.92 | 12.51 | 9.80 | 7.59 | 9.80 | 97 | 124 | 121* |
| Northcentral Averages | | 14.46 | 11.52 | 12.01 | 11.18 | 9.01 | 9.30 | 105 | 115 | 122 |
| Daniels | Scobey | 18.23 | 10.45 | 13.49 | 10.67 | 7.55 | 10.24 | 105 | 123 | 116 |
| Dawson | Glendive | 17.74 | 6.51 | 13.45 | 11.74 | 4.83 | 10.37 | 142 | 126 | 139 |
| Garfield | Jordan | 14.80 | 8.20 | 12.54 | 10.29 | 6.01 | 9.56 | 101 | 123 | 108 |
| McCone | Vida | (NA) | (NA) | 15.70 | 11.28 | (NA) | 11.93 | 136 | (NA) | (NA) |
| Richland | Savage | 18.27 | 8.52 | 13.86 | 11.64 | 6.36 | 11.36 | 137 | 129 | 131 |
| Roosevelt | Culbertson | 15.00 | 8.00 | 14.29 | 10.50 | 6.20 | 11.40 | 112 | 118 | 114 |
| Sheridan | Medicine Lake | 16.06 | 8.20 | 14.30 | 10.98 | 6.76 | 11.20 | 131 | 126 | 107 |
| Valley | Glasgow | 12.21 | 7.33 | 11.17 | 8.13 | 6.08 | 8.95 | 163 | 127 | 124 |
| Northeast Averages | | 16.04 | 8.17 | 13.65 | 10.65 | 6.26 | 10.63 | 128 | 125 | 120 |
| Broadwater | Townsend | 10.18 | 12.88 | 11.11 | 7.61 | 11.11 | 8.17 | 103 | 113 | 119* |
| Cascade | Great Falls | 12.68 | 15.09 | 15.24 | 11.26 | 11.30 | 10.02 | 105 | 124 | 135 |
| Fergus | Lewistown | 22.37 | 16.24 | 17.66 | 14.42 | 11.28 | 12.51 | 103 | 101 | 107 |
| Golden Valley | Barber | 15.90 | 12.05 | 12.49 | 12.59 | 8.45 | 9.41 | 106 | 110 | 108 |
| Judith Basin | Stanford | (NA) | 15.65 | 15.34 | 12.83 | 11.47 | 11.47 | 106 | 109 | 104 |
| Lewis & Clark | Helena | 13.98 | 11.40 | 11.37 | 9.27 | 11.99 | 8.94 | 107 | 126 | 134 |
| Meagher | White Sul. Spr. | (NA) | 13.24 | 15.70 | 10.10 | 9.91 | 10.52 | 103 | 112 | 97 |
| Musselshell | Roundup | 13.77 | 12.44 | 12.01 | 10.95 | 7.99 | 9.31 | 112 | 125 | 129 |
| Petroleum | Flatwillow | 16.06 | 10.32 | 13.33 | 12.40 | 6.82 | 10.16 | 142 | 127 | 122 |
| Wheatland | Harlowton | 19.39 | 13.43 | 12.88 | 15.56 | 10.81 | 9.49 | 105 | 101 | 96 |
| Central Averages | | 16.17 | 13.27 | 13.71 | 11.70 | 10.11 | 9.86 | 109 | 115 | 115 |

TABLE XXIII - 3
(cont.)

| | | Precipitation, inches | | | | | | Number of Days Between Dates of Temp. of 32°F, Last in Spring & First in Fall[1] | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Annual | | | Growing Season April - September | | | | | |
| County & District | Stations | 1982 | 1983 | Normal[2] | 1982 | 1983 | Normal[2] | 1982 | 1983 | Normal[3] |
| Beaverhead | Dillon | 15.31 | 11.48 | 11.10 | 11.29 | 10.17 | 7.00 | 103 | 101 | 99 |
| Gallatin | Bozeman | 22.42 | 18.27 | 18.63 | 14.57 | 12.91 | 11.89 | 106 | 101 | 107 |
| Madison | Virginia City | 17.89 | 16.77 | 16.26 | 12.28 | 9.84 | 11.29 | 94 | 88 | 67* |
| Silver Bow | Butte | 12.83 | 12.55 | 11.73 | 8.09 | 9.86 | 8.40 | 94 | 96 | 94 |
| Southwest Averages | | 16.17 | 14.77 | 17.11 | 11.56 | 10.70 | 9.65 | 99 | 97 | 81 |
| Big Horn | Crow Agency | 18.56 | 12.75 | 15.31 | 11.08 | 7.37 | 10.09 | 106 | 123 | 125 |
| Carbon | Red Lodge | 32.80 | 24.15 | 25.02 | 20.64 | 14.80 | 14.93 | 104 | 114 | 104 |
| Park | Livingston | 15.54 | 15.39 | 15.12 | 11.62 | 10.85 | 10.43 | 105 | 100 | 116 |
| Stillwater | Columbus | 18.76 | 14.12 | 13.87 | 15.70 | 10.54 | 9.80 | 119 | 110 | 121* |
| Sweet Grass | Big Timber | 21.17 | 18.06 | 15.20 | 16.22 | 13.80 | 10.77 | 106 | 124 | 123 |
| Treasure | Hysham | 15.36 | 11.92 | 12.77 | 11.29 | 9.14 | 9.21 | 112 | 127 | 121 |
| Yellowstone | Billings | 18.27 | 12.86 | 15.09 | 12.77 | 8.57 | 9.31 | 128 | 128 | 132 |
| Southcentral Averages | | 17.11 | 15.61 | 16.05 | 14.19 | 10.72 | 10.65 | 111 | 118 | 120 |
| Carter | Ekalaka | 24.38 | 10.79 | 16.21 | 16.32 | 6.44 | 7.82 | 107 | 99 | 122 |
| Custer | Miles City | 16.38 | 8.79 | 14.11 | 11.77 | 6.52 | 10.11 | 121 | 127 | 150 |
| Fallon | Plevna | (NA) | 16.82 | 13.21 | 14.40 | 10.07 | 10.34 | 110 | 103 | 118 |
| Powder River | Broadus | 18.41 | 8.75 | 13.84 | 12.49 | 4.04 | 9.83 | 111 | 134 | 128 |
| Prairie | Mildred | 20.26 | 7.28 | 13.28 | 13.80 | 5.15 | 10.63 | 107 | 104 | 119 |
| Rosebud | Forsyth | 15.09 | 10.16 | 12.13 | 10.77 | 8.04 | 9.51 | 145 | 145 | 130 |
| Wibaux | Wibaux | 21.01 | 9.38 | 13.84 | 12.84 | 6.71 | 11.32 | 107 | 89 | 107* |
| Southeast Averages | | 19.26 | 10.28 | 13.80 | 10.66 | 6.71 | 9.94 | 115 | 114 | 129 |

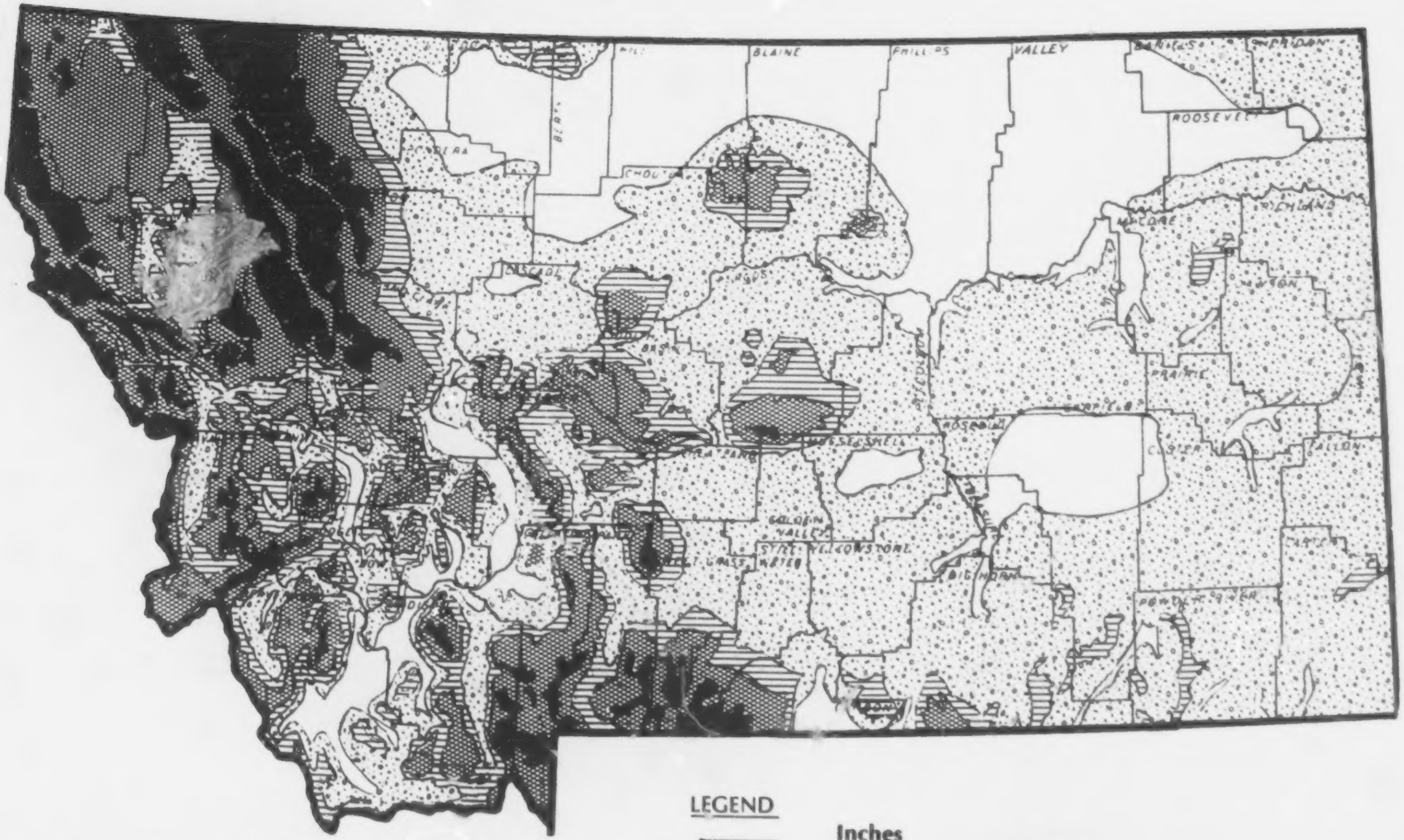
[1] In this comparison, the 'first in Fall' is the first freezing temperature after June 30.
[2] Normal for period 1951-1980.
[3] Normal for period 1941-1970; * - three-year average.

SOURCE: Pratt & Lies, Montana Agricultural Statistics, 1984, p. 21. Prepared by the National Weather Service, Great Falls, Montana.

SA 469

# FIGURE XXIII-1

## AVERAGE ANNUAL PRECIPITATION


BLAINE
PHILLIPS
VALLEY
DANIELS
SHERIDAN
ROOSEVELT
PONDERA
CHOUTEAU
RICHLAND
McCONE
PRAIRIE
GARFIELD
ROSEBUD
MUSSELSHELL
CUSTER
FALLON
WHEATLAND
GOLDEN VALLEY
SWEET GRASS
STILLWATER
YELLOWSTONE
BIG HORN
POWDER RIVER

Based on period 1953-67

LEGEND

Inches

0 - 12 ☐

12 - 16 ▨

16 - 20 ▤

20 - 40 ▩

40 & more ■

**Source**
U.S.D.A. Soil Conservation Service
Montana Water Resources Board
National Weather Service

Mt. Crop & Livestock Reporting Service
Helena, Montana

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1,000 copies of this public document were published at an estimated cost of $10.36 per copy, for a total cost of $10,357.00, which includes $10,357.00 for printing and $.00 for distribution.

Montana Statistical Abstract, 1984 - Errata Sheet

## TABLE III - 1
## MONTANA CIVILIAN LABOR FORCE
## STATE SUMMARY, 1970 & 1980

SA 53

| | EMPLOYED | | UNEMPLOYED | |
|---|---|---|---|---|
| Persons 16 Yrs. & Over | 1970 | 1980 | 1970 | 1980 |
| Total Labor Force | 266,395 | 362,656 | | |
| Civilian Labor Force (CLF) | 260,649 | 357,846 | | |
| Total Employed Civilian Labor Force | 244,608 | 328,316 | 16,041 | 29,530 |
| EMPLOYED CIVILIAN LABOR FORCE: | | | | |
| White: | | | | |
| Total | 238,699 | 315,678 | 14,805 | 26,635 |
| 16-24 Years | 43,159 | 67,373 | 6,496 | 10,308 |
| 25-54 Years | 147,847 | 200,760 | 6,454 | 13,932 |
| 55 Years & Over | 47,663 | 47,545 | 1,855 | 2,395 |
| Black: | | | | |
| Total | 443 | 461 | 24 | 59 |
| 16-24 Years | 208 | 99 | 8 | 9 |
| 25-54 Years | 181 | 316 | 16 | 44 |
| 55 Years & Over | 54 | 46 | 0 | 6 |
| Native American: | | | | |
| Total | (N/A) | 9,997 | (N/A) | 2,541 |
| 16-24 Years | | 2,516 | | 1,131 |
| 25-54 Years | | 6,435 | | 1,313 |
| 55 Years & Over | | 1,046 | | 97 |
| Asian & Pacific Islander | | | | |
| Total | (N/A) | 974 | (N/A) | 112 |
| 16-24 Years | | 254 | | 43 |
| 25-54 Years | | 599 | | 69 |
| 55 Years & Over | | 121 | | 0 |
| Other Races | | | | |
| Total | (N/A) | 1,206 | (N/A) | 183 |
| 16-24 Years | | 348 | | 73 |
| 25-54 Years | | 720 | | 93 |
| 55 Years & Over | | 138 | | 17 |

corrected data